

**Eastern Regional Power Committee**  
**Kolkata-33**

**Salient Decisions taken in 103<sup>rd</sup> OCC meeting held on 25.11.14**

1. It was informed that in spite of ERPC decision Sterlite is failing to submit monthly progress report on construction of this line to secretariat. OCC took serious note of it and advised Sterlite to send the latest status of this line regularly to secretariat on monthly basis under written communication.
2. OCC informed that there is no such direct mechanism to reimburse the negative charges incurred due to non adherence of generation schedule under no evacuation path. OCC advised NHPC to communicate the issue to Powergrid and ERLDC for certification of no evacuation path. OCC referred the issue to Commercial Committee Meeting for further deliberation.
3. OPTCL expressed their reservation on argumentation of 3rd ICT at 400kV Jeypore S/s and asked for test reports for further analysis at their end. OCC advised Powergrid to submit the test reports to OPTCL and decided to review the issue after receiving the comments of OPTCL before referring to TCC.
4. OCC agreed to the proposal of paralleling 100MVA, 220/132kV ICT with 160 MVA, 220/132kV ICT temporarily at Purnea S/s and referred to TCC for further approval.

## **Eastern Regional Power Committee**

### **Minutes of 103<sup>rd</sup> OCC Meeting held on 25<sup>th</sup> Nov, 2014 at ERPC, Kolkata**

Shri. A. K. Bandyopadhyaya, Member Secretary, ERPC welcomed all OCC members, and participants in the meeting. But just at the start of the meeting the house got totally concussed as it was informed that respected Shri R. Y. Rao, GM (O&M), ERTS-II had taken his last breath on 24<sup>th</sup> November, 2014. All the members showed deep condolence and the house observed one minute silence on sad demise of Shri Rao.

List of participants is at **Annexure-A**.

#### **Item no. A.1: Confirmation of minutes of 102<sup>nd</sup> OCC meeting of ERPC held on 21.10.2014**

The minutes were uploaded in ERPC website and circulated vide letter dated 07.11.14 to all the constituents. No comments were received till date.

Members may confirm the minutes.

#### **Deliberation in the meeting**

*Members confirmed the minutes of 102<sup>nd</sup> OCC Meeting.*

### **PART B**

#### **Item no. B.1: O & M of 220kV Farakka –Lalmatia transmission system -- NTPC**

Rajmahal area of ECL receives power supply from Farakka Super Thermal Power Station of NTPC through 220 kV Farakka –Lalmatia Transmission System (FLTS) at its Dhankunda sub-station, Lalmatia, JSEB.

220kV Farakka –Lalmatia transmission system (FLTS) was constructed by NTPC for which the fund was provided by ECL owner of the line is M/s. ECL. NTPC is doing the operation & maintenance of 220kV Farakka –Lalmatia transmission system along with its associated switchyard equipments and ECL is paying for the same.

At present JSEB is not only giving power to ECL Rajmahal but also to district Godda, Dumka through Farakka – Lalmatia line.

NTPC is facing a lot of problems in maintenance of the line as their expertise is in power generation, not in the transmission field. Recently, for restoration of collapsed tower of Farakka-Lalmatia transmission system, NTPC has taken help of PGCIL.

In view of above, it is requested to JSEB / PGCIL for operation & maintenance of 220kV Farakka –Lalmatia transmission system along with its associated switchyard equipments. NTPC will facilitate for transfer of operation & maintenance contract of 220kV Farakka – Lalmatia transmission system. M/S ECL has also consented for O & M agreement with JSEB / PGCIL, as discussed in ECL- NTPC meeting on dated 16.06.2014.

In 101<sup>st</sup> OCC, JSEB informed that a meeting was held with ECL on 26<sup>th</sup> & 27<sup>th</sup> Aug, 2014 wherein ECL and JSEB agreed in principle and it has been taken up for ECL board approval.

NTPC/ JSEB may update.

### **Deliberation in the meeting**

*NTPC informed that, they are having meeting with ECL on 25<sup>th</sup> November, 2014, and agreed to communicate the outcome to ERPC Secretariat.*

#### **Item no. B.2: Isolation of a part of Bus section at Anugul from 400kV Bus-II comprising of LILO of TSTPP-Meramundali at Anugul**

At Anugul all the tie and main CBs have not yet been commissioned and the 400kV Bus-II is connected to Bus-I only vide the main and tie breakers of 400kV Meramundali-Anugul and 125MVAR B/R at Anugul. Also, the portion comprising of the LILO of 400kV TSTPP-Meramundali at Anugul is on a section of a Bus which is not connected to the Bus-II. This isolated section is however connected to Bus-I vide the main and tie breakers of the remaining two 125MVAR Bus Reactors at Anugul. This effectively means that Bus-II is connected to Bus-I only through one main/tie breaker(viz the main/tie breakers of Meramundali-Anugul and 125MVAR Bus Reactor-I). Due to the above configuration, in case of tripping of 400kV Meramundali-Anugul, Bus-I & II are segregated and 400kV Jeypore-Bolangir-Anugul trips on over-voltage as all 3 x125MVA Bus Reactors are segregated from Bolangir side and the long line of 400kV Jeypore-Bolangir-Anugul remains connected upto Bus-II at Anugul without any Bus Reactors.

In 101<sup>st</sup> OCC, Powergrid informed that they have already applied for shutdown for connecting the part of Bus-II. Regarding commissioning of the remaining main/tie breakers it was informed that final schedule will be submitted after getting the schedule of Siemens.

OCC advised Powergrid to commission the remaining main/tie breakers and give the schedule within a week. Powergrid agreed.

In 102<sup>nd</sup> OCC, Powergrid informed that double bus scheme has been implemented at 400kV Anugul S/s and submitted the schedule for commissioning of remaining main/tie breakers as follows:

- i. 400kV GMR bays (2 nos): 15<sup>th</sup> November, 2014
- ii. 400kV GMR-JITPL ties (2 nos) : 15<sup>th</sup> November, 2014
- iii. 400kV ICT-1 bay: 5<sup>th</sup> November, 2014
- iv. 400kV ICT-2 bay and tie: 6<sup>th</sup> November, 2014
- v. 400kV ICT-3 bay and tie: 7<sup>th</sup> November, 2014
- vi. 400kV ICT-4 bay and tie: 8<sup>th</sup> November, 2014
- vii. 400kV Monnet bays (2 nos) : 30<sup>th</sup> November, 2014

Powergrid may update.

### **Deliberation in the meeting**

*Powergrid-Odisha representative was not available for discussion.*

#### **Item no. B.3: Over-voltage settings of EHV lines in ER**

The over-voltage settings of 400kV lines in ER were sought for in the previous meetings and the data regarding the same collated. However, certain discrepancies have been observed in process of the compilations. The same would be presented in the meeting. Also, with a significant number of 765kV lines having been commissioned, the over-voltage settings for 765kV lines also need to be furnished.

In 102<sup>nd</sup> OCC, ERLDC informed that following data is not available with them,

- 400kV Durgapur-Sagardighi –II at Durgapur end
- 400kV Ranchi-New Ranchi at Ranchi end
- 400kV Mejia-Jamshedpur at Mejia end
- Tisco end data

OCC advised relevant constituents to send the requisite data. Constituents agreed.

ERLDC informed that there are some discrepancies with available data.

OCC advised ERLDC to send the discrepancy data to all constituents for updation.

ERLDC may update.

### **Deliberation in the meeting**

*ERLDC informed that they have received the over voltage settings of 400kV Ranchi-New Ranchi at Ranchi end and 400kV Mejia-Jamshedpur at Mejia end.*

*ERLDC also informed that there are some discrepancies with available data of Powergrid ER-II and OPTCL. The list of discrepancies is given at **Annexure-B.3**.*

*OCC requested all the constituents to send the missing data and advised to update the discrepancy data.*

*Constituents agreed.*

### **Item no. B.4: Submission of DPR for R&U of protection and control system for funding from PSDF**

In 28<sup>th</sup> TCC, Powergrid informed that they have submitted the DPR pertaining to URTDSM scheme and NLDC confirmed the same.

In regard to Kahalgaon bus-splitting scheme after detailed deliberation in 28<sup>th</sup> TCC, NTPC informed in 28<sup>th</sup> ERPC that for funding Kahalgaon Bus Splitting scheme from PSDF necessary application will be placed before NLDC by it on behalf of beneficiaries.

28<sup>th</sup> ERPC also advised CTU to place the requisite application before NLDC for availing funding from PSDF for its STATCOM project.

In 101<sup>st</sup> OCC, NTPC informed that shortly they would submit the DPR for Kahalgaon bus-splitting scheme to NLDC.

In 102<sup>nd</sup> OCC, Powergrid informed that they would inform the status on STATCOM in next OCC meeting.

Members may update the status.

### **Deliberation in the meeting**

*NTPC informed that they have submitted the DPR for Kahalgaon bus-splitting scheme to NLDC on 08.10.2014.*

*Powergrid informed that DPR for STATCOM would be submitted to NLDC by December, 2014.*

### **Item no. B.5: Extension of Talcher-Kolar pole trip signal to JITPL for generation reduction**

In 101<sup>st</sup> OCC, Powergrid informed that the relay has been installed but not yet wired. Powergrid informed that it will be commissioned by 30<sup>th</sup> September, 2014.

In 102<sup>nd</sup> OCC, Powergrid informed that wiring has been done and the scheme was tested for extension of signal from Talcher to JITPL.

OCC advised Powergrid and JITPL to give official correspondence for completion of the scheme to ERPC Secretariat /ERLDC.

Powergrid and JITPL agreed.

Powergrid & NTPC may update.

### **Deliberation in the meeting**

*Powergrid-Odisha representative was not available for discussion.*

### **Item no. B.6: New Islanding Schemes in Eastern Region**

#### **B.6.1. FSTPS Islanding Scheme, NTPC**

98<sup>th</sup> OCC recommended following:

- 1) Procurement of new PLCC panels for Lalmatia, Dumka and Farakka S/s
- 2) Procurement of two sets of 300 AH battery banks along with battery charger for Dumka and Lalmatia S/s as decided in 94<sup>th</sup> OCC.

In 99<sup>th</sup> OCC, Powergrid informed that the new estimate for procurement of above items is in approval stage by its appropriate authority but indicated that the amount would be around Rs. 53,41,889/-. It was informed that the final approved estimate will be submitted to JSEB by July, 2014.

In 100<sup>th</sup> OCC, Powergrid informed that the estimate of Rs. 53,10, 526/- has already been sent to JSEB and requested JSEB to release the amount as early as possible.

JSEB informed PGCIL to send the details to GM, Dumka for payment of the project estimate/cost incurred for PLCC checking as it comes under jurisdiction of Dumka.

In 28<sup>th</sup> TCC meeting, JSEB informed that they have received the estimate on 4th September, 2014 and they will release the payment by October, 2014.

Powergrid informed that implementation of the scheme will take five (5) months after receiving the amount. JSEB also assured to provide all the logistics as requested by Powergrid vide its letter to GM, Dumka.

NTPC informed that, implementation of the NTPC part will be completed by December, 2014.

In 101<sup>st</sup> OCC, JUSNL informed that the estimate has been sent to Headquarter for payment.

In 102<sup>nd</sup> OCC, Powergrid informed that payment is yet to be received from JSEB.

Powergrid/ JSEB may update the status.

### **Deliberation in the meeting**

*NTPC informed that, implementation of the NTPC part will be completed by January, 2015.*

*JUSNL informed that they would settle the payment in December, 2014.*

#### **B.6.2. Chandrapura TPS Islanding Scheme, DVC**

In 28<sup>th</sup> TCC meeting, DVC informed that order is yet to be placed for procurement of elements etc. towards execution of the scheme; the vendor did not qualify on certain technicalities and so representative from DVC expressed that it would not be possible to implement the islanding scheme by 30<sup>th</sup> October, 2014.

TCC stressed that Chandrapura TPS islanding scheme is an important one which was envisaged after grid disturbance of 2012. Discussions were held in last few TCC and ERPC meetings but the scheme is not yet initialized from DVC end.

The 28<sup>th</sup> ERPC reviewed the progress of the scheme and took serious note on performance of DVC towards execution of the scheme.

However, on request of DVC, 28<sup>th</sup> ERPC has extended the completion schedule to December, 2014 from 31<sup>st</sup> October, 2014 as earlier decided by 27<sup>th</sup> ERPC with specific direction to place the work order latest by 31<sup>st</sup> October, 2014.

ERPC has also further advised DVC to place the progress report on implementation of the CTPS islanding scheme to ERPC Secretariat in each fortnight.

In 101<sup>st</sup> OCC, DVC informed that the matter has been taken up with Head Quarter and the work order will be placed shortly on single bid system.

In 102<sup>nd</sup> OCC, DVC informed that order has been placed to Alstom, India on 16<sup>th</sup> October, 2014 and the implementation will take six more months (expected by March 2015).

DVC may update the status.

### **Deliberation in the meeting**

*DVC informed that M/s Alstom has submitted the drawings/documents for approval of DVC on 14-11-2014 for implementation of the scheme. The same were under scrutiny by concerned department of DVC and likely to be approved shortly.*

#### **B.6.3. BkTPS Islanding Scheme, WBDCL**

In 27<sup>th</sup> TCC/ERPC, WBDCL informed that LOA has been placed on 14<sup>th</sup> May, 2014 and the work will be completed by December, 2014 (+/- 2 months).

In 101<sup>st</sup> OCC, WBDCL informed that it will be completed in schedule.

In 102<sup>nd</sup> OCC, WBDCL informed that the scheme will be implemented by February, 2015.

WBDCL may update the status.

### **Deliberation in the meeting**

*WBDCL informed that the scheme will be implemented in schedule.*

#### **B.6.4. Tata Power Islanding Scheme, Haldia**

In 28<sup>th</sup> TCC meeting, WBSETCL informed that implementation of the scheme may take 2 more months and it will be implemented by January, 2015.

In 101<sup>st</sup> OCC, WBSETCL informed that order has been placed for relay and other equipment. The fabrication work has been started and the scheme will be completed in schedule.

In 102<sup>nd</sup> OCC, WBSETCL informed that the scheme will be completed in schedule.

WBSETCL may update the status.

#### **Deliberation in the meeting**

*WBSETCL informed that the scheme will be completed in schedule.*

### **Item no. B.7: Concerned members may update the latest status.**

#### **B.7.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections**

In 101<sup>st</sup> OCC, Sterlite informed that the order would be placed by this month for line and bay equipments.

Sterlite may update.

#### **Deliberation in the meeting**

*Sterlite representative informed that order was placed for construction of bays and the forest clearance needed for construction of the line. is still pending.*

*It was informed that in spite of ERPC decision Sterlite is failing to submit monthly progress report on construction of this line to secretariat.*

*OCC took serious note of it and advised Sterlite to send the latest status of this line regularly to secretariat on monthly basis under written communication.*

*Sterlite agreed to send the monthly status without fail.*

#### **B.7.2. Status of 400kV GMR- Angul D/C line.**

In 28<sup>th</sup> TCC, GMR informed that they are facing serious ROW problem and the issues are being addressed.

ERLDC informed that presently GMR is allowed to evacuate 550 MW and in case the dedicated ATS is not brought in time, severe problem will be faced by the grid operators.

In line with OCC decision TCC also advised GMR to complete the line by end of October, 2014, failing which scheduling of GMR for evacuation of its generation through LILO could be discontinued.

In 102<sup>nd</sup> OCC, GMR informed that work is in progress and the line will be commissioned by 30<sup>th</sup> October, 2014.

GMR also informed that their bays at Angul are ready. The charging approval for line and bays are to be obtained from Regional Inspectorate Office which is looking after by Powergrid. OCC advised Powergrid to interact with inspectorate office for early completion.

Powergrid agreed.

GMR and Powergrid may update.

#### **Deliberation in the meeting**

*GMR informed that remaining 1 km stringing of the line will be complete by November, 2014. The inspection of the line and bays by inspectorate office is scheduled from 3<sup>rd</sup> December, 2014. Thereafter the line will be charged subjected to the availability of shutdown.*

*OCC advised GMR to send the shutdown requisition to ERLDC. GMR agreed.*

#### **B.7.3. Status of construction of Chuzachen bay at Rangpo S/s.**

In 100<sup>th</sup> OCC, Chuzachen informed that the construction of these bays was undertaken by Govt. of Sikkim. Sikkim representative informed that the issue is under consideration of Sikkim Government.

In 102<sup>nd</sup> OCC, Sikkim representative informed that the proposal has been submitted to cabinet for approval.

Sikkim may update.

#### **Deliberation in the meeting**

*Sikkim representative was not available for discussion.*

#### **B.7.4. Status of 400kV Maithon-Gaya and Koderma-Gaya D/C lines.**

Powergrid also informed that 400kV Maithon-Gaya-I and Koderma-Gaya-I will be commissioned by October, 2014.

*In 102<sup>nd</sup> OCC, Powergrid informed that work was delayed due to rain and 400kV Maithon-Gaya-I and Koderma-Gaya-I will be commissioned by November, 2014.*

Powergrid may update the latest status.

#### **Deliberation in the meeting**

*Powergrid informed that 400kV Maithon-Gaya-I and Koderma-Gaya-I will be commissioned by December, 2014*

#### **B.7.5. Status of 80MVAR Line reactor of 400kV Meramundali-Angul at Meramundali**

In 101<sup>st</sup> OCC, OPTCL informed that the relay has been arranged; now commissioning work is in the process for fixing the relay settings by Powergrid.

In 102<sup>nd</sup> OCC, OPTCL informed that relay has been installed and it will be commissioned as and when shutdown is accorded.

OPTCL and Powergrid may update.

#### **Deliberation in the meeting**

*Powergrid-Odisha representative was not available for discussion.*



#### **B.7.6. 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG) S/s**

400/220 kV, 2X 315 MVA S/S at Bolangir has been established by Powergrid as part of ISTS system & the following 220 kV interconnecting lines was envisaged to be established by OPTCL:

- (i) LILO of OPTCL's Katapalli-Bolangir line at Bolangir (PG).
- (ii) Bolangir(PG) –Bolangir (OPTCL) S/C line.
- (iii) Bolangir(PG) –Kesinga S/C line.

In 102<sup>nd</sup> OCC OPTCL informed the status as follows:

- (i) LILO of OPTCL's Katapalli-Bolangir line at Bolangir(PG) —Work is in progress and it would be completed by Nov, 2014
- (ii) Bolangir(PG) –Kesinga S/C line —Tender opened and completion schedule is Dec, 2015.

OPTCL may update the status.

#### **Deliberation in the meeting**

*OPTCL informed the status as follows:*

- (i) LILO of OPTCL's Katapalli-Bolangir line at Bolangir(PG) —Work is in progress and it would be completed by January, 2015*
- (ii) Bolangir(PG) –Bolangir (OPTCL) line-I.--- it would be completed by January, 2015*
- (iii) Bolangir(PG) –Bolangir (OPTCL) line-II.--- it would be completed by March, 2015*
- (iv) Bolangir(PG) –Kesinga S/C line —Tender opened and completion schedule is Dec, 2015.*

#### **B.7.7. Power Evacuation from 400/ 220KV Daltanganj and Chaibasa Substations**

In 101<sup>st</sup> OCC, Powergrid informed the status as follows:

##### **1. 220/132 kV Daltanganj:**

- Land acquisition matter has been taken up with Jharkhand Govt. & expected to be resolved by January, 2015.
- Thereafter, 400/220kV Daltanganj S/s would be constructed by October, 2015.
- Powergrid requested JUSNL to expedite the construction of 220/132kV Daltanganj S/s for evacuation of power from 400/220kV Daltanganj S/s

##### **2. 220/132/33 kV Chaibasa:**

- 400/220kV Chaibasa S/s will be ready by October, 2014.
- Order has been received from JUSNL on 01.09.2014 for construction 220kV Chaibasa(PG)-Chaibasa(JUSNL).
- The construction work of 220/132kV Chaibasa S/s under consultancy project is being delayed due to non-receipt of payment from JUSNL.

In 102<sup>nd</sup> OCC, Powergrid informed that 400/220kV Chaibasa S/s will be charged on 27<sup>th</sup> October, 2014 and Transformer will be commissioned by November, 2014. Regarding downstream system Powergrid informed that they are yet to receive the fund from JSEB.

Regarding Daltanganj Powergrid informed that the status is same.

Powergrid and JSEB may update the status.

#### **Deliberation in the meeting**

*Regarding Daltanganj, Powergrid informed that the status is same.*

*Powergrid informed that 400/220kV ICT will be commissioned by 26<sup>th</sup> November, 2014. Regarding downstream system Powergrid informed that they are yet to receive the fund from JSEB.*

**B.7.8. Status of works related to Implementation of SPS for 500MW round the clock power through HVDC Bheramara**

In 102<sup>nd</sup> OCC, Powergrid informed the status as follows:

- Line reactor of Behrampur-Jeerat will be converted into switchable bus reactor: tendering completed and expected by March, 2015.
- 400 kV Sagardighi-Behrampur D/C (HTLS twin): Work has been awarded and will be commissioned by Dec, 2014.

Powergrid may update the status.

**Deliberation in the meeting**

*Powergrid ER-II representative was not available for discussion.*

**B.7.9. Modification of 132kV Bus arrangement at 220/132kV Purnea Sub-station of POWERGRID**

In 101<sup>st</sup> OCC, Powergrid informed that work order is expected to be awarded in September, 2014.

In 102<sup>nd</sup> OCC, Powergrid informed that order will be placed in October, 2014 and the implementation would take 18 to 24 months.

Powergrid may update the latest status.

**Deliberation in the meeting**

*Powergrid informed that the scheme will be implemented by July, 2016.*

**B.7.10. Augmentation of Transformation Capacity in PGCIL Grid S/s at Muzaffarpur, Purnea, Sampatchak(Patna) & Sasaram-- BSPHCL**

In 101<sup>st</sup> OCC, Powergrid informed that the work order has been placed on 20.06.2014 for augmentation of the transformation capacity at Purnea, Sampatchak(Patna) & Sasaram. The work is expected to be complete by January, 2016.

For Muzaffarpur the order is expected to be placed on October, 2014.

In 102<sup>nd</sup> OCC, Powergrid informed that the status as follows,

- Muzaffarpur: The order was placed on 20<sup>th</sup> October, 2014 for augmentation of transformation capacity and it will take 18-24 months for completion.
- Sampatchak(Patna) & Sasaram: will be completed by January, 2016.
- Purnea: One 315 MVA ICT has already been augmented and other two will be completed by March, 2015.

Powergrid may update the status.

**Deliberation in the meeting**

*Powergrid informed that the work will be completed in schedule.*

#### **B.7.11. Status of construction of 132kV Banka-Deoghar line**

In 102<sup>nd</sup> OCC, Powergrid agreed to update the status in next OCC.

Powergrid may update the status.

#### **Deliberation in the meeting**

*Powergrid informed that the construction activities were not yet initiated.*

#### **B.7.12. DCD to Farakka and Tala –NTPC, PTC**

In 102<sup>nd</sup> OCC, OCC advised Powergrid to provide DCDs to Farakka STPS and Tala HEP. Powergrid agreed.

OCC advised all constituents to charge the DCD frequently so that the battery would not get discharged.

Powergrid, NTPC and PTC may update the status.

#### **Deliberation in the meeting**

*NTPC informed that the DCD was received from Powergrid. It was also informed that the SEM meters of 7-series were giving trouble while adjusting the time drift.*

*ERLDC also confirmed that the meters of the particular 7-series were facing such problem during time correction, issue has already been taken up with the Powergrid/Manufacturer (i.e. L&T).*

*Further, NTPC informed that one meter is to be installed at Barh unit #5 on HT side.*

*NERLDC and Powergrid agreed.*

#### **B.7.13. Synchronization of 132 kV Dalkhola(WB)-Kishanganj(BSPTCL) S/C**

132 kV Dalkhola-Kishanganj is presently kept in an unutilized condition for a long period of time. Earlier it was kept open to avoid overloading of backward 132 kV system in West Bengal side, however with commissioning of 220/132 kV Substation at Dalkhola (WB) along with 220 kV Dalkhola(PG)-Dalkhola(WB) D/C this issue of loading of backward network is resolved. With closing of the 132kV Dalkhola(WB)-Kishanganj(BSPTCL) S/C line would relieve the loading of Purnea 220/132kV ATRs and enhance reliability of supply to N. Bihar and Nepal. Rejuvenation of this unused tie line will enhance reliability of supply to Purnea and adjoining areas. Therefore this tie needs to be restored at the earliest.

In 102<sup>nd</sup> OCC, WBSETCL informed that it is very old line and not in service since long. They will check the status of the line from Dalkhola end and intimate the status in next OCC.

BSPTCL informed that the line is already idle charged from their end.

OCC advised to make the line operational for benefit of both WB and Bihar as well as improve the reliability of power supply to N. Bihar.

WBSETCL may update the status.

#### **Deliberation in the meeting**

*WBSETCL informed that line condition is OK and the bay is also ready for charging. The protection coordination is to be done with remote end.*

*OCC advised WBSETCL and Bihar to interact each other for proper protection settings and also advised to charge the line on trail basis in December, 2014.*

*WBSETCL and Bihar agreed.*

**Item no. B.8: Status of “Third Party Protection Audit”**

List of the observations along with updated compliances received from the constituents made available in reports of ERPC website ([www.erpc.gov.in](http://www.erpc.gov.in)).

In 101<sup>st</sup> OCC, regarding Third Party Protection with CPRI, OPTCL informed that till date they have not received any communication from CPRI.

In 102<sup>nd</sup> OCC, updated status on compliance was placed.

On third Party Protection with CPRI, OPTCL informed that till date they have not received any communication from CPRI.

OCC advised OPTCL to communicate the same to CERC.

Members may update.

**Deliberation in the meeting**

*OPTCL informed that they have received the estimate from CPRI and they will start the Protection Audit soon.*

*Further, it was informed that as per the recommendations of the enquiry committee the third party audit of the protection system needs to be carried out on periodically.*

*After detail deliberation, OCC advised to chalk out the detailed plan for the audit by the next OCC and the audit will start from January, 2015*

**Item no. B.9: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.**

The activity of the preparation of Crisis Management Plan for countering the cyber attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

NTPC communicated their activity of the preparation of Crisis Management Plan for countering the cyber attacks vide letter dated 2<sup>nd</sup> August, 2013. In 88<sup>th</sup> OCC, constituents requested for another workshop on this issue. OCC agreed and requested NTPC and CESC to share their scheme in the workshop.

Members may note and comply.

**Deliberation in the meeting**

*Members noted.*

**Item no. B.10: Energy Generation data management from Renewable Energy Sources**

As per Electricity Act, 2003, CEA has been entrusted with the task of collecting electricity generation data. CEA is monitoring all the existing generating stations with capacity more than 25

MW (Conventional sources only). In recent years there has been appreciable growth in generation from Renewable Energy Sources (RES).

In view of above it was decided to monitor all the generating stations under RES connected to the grid and also to bring out month wise, state wise and sector wise report on RES generation in MU including peak generation from RES.

CEA already requested to nominate Nodal officers at the level of SLDC for the above purpose. However, only few states have responded.

Those SLDCs who have not yet nominated the nodal officers for Energy Generation Data management from RES are requested to furnish the details at following email/Fax:

Email: ceaopmwind@gmail.com

with a copy to rishika.engineer@gmail.com and s.sewak@cea.nic.in

Nodal officers from CEA:

Mrs. Rishika Sharan, Director, CEA, 011-26732663 and 26102263(Fax), Mobile: 9868021299

Mrs. Sarita Sewak, Dy. Director, 011-26732656

SLDCs may note and nominate their Nodal officers as advised.

#### **Deliberation in the meeting**

*Members noted.*

#### **Item no. B.11: Restricted Governor Mode of Operation**

The latest status of units of ER under RGMO is available at ERPC website (<http://www.erpc.gov.in/>) under Operation>Important data.

Members may update.

#### **Deliberation in the meeting**

*Members noted.*

#### **Item no. B.12: Pollution mapping for Eastern Region -- Powergrid**

In 101<sup>st</sup> OCC, Powergrid informed that consignee address has received from all constituents and updated rest of the status as follows:

Utility	Scope	Dummy Insulators Installed	Balance grids (Pending Location)	Co- coordinators
BSPTCL	59	44 (only 38 grids effective)	11	Shri Brij Mohan AEE, BSPTCL
JUSNL	67	23 (only 15 grids effective)	40	Shri Ajay Prasad, ESE, CRITIL, JUSNL
WBSECTL	74	52 (only 41 grids effective)	27	Shri Ram Prasad Mandal, SE(E), WBSETCL
WBSEDCL				
OPTCL	164	69 (only 48 grids effective)	116	Shri Jayant Senapati, DGM (Elect.) OPTCL

Sikkim	12	7	5	Jeewan Thapa, EE (EHV)
POWERGRID ER 1	96	96	0	
POWERGRID ER 2	43	43	0	
POWERGRID Odisha	43	43	0	

OCC advised Powergrid to communicate the issue to ERPC and TCC members of the respective constituents.

Accordingly, Powergrid has communicated the issue to ERPC members of the respective constituents.

In 102<sup>nd</sup> OCC, OPTCL informed that they have implemented at 45 more locations. The remaining locations are in South Odisha, which was affected by recent cyclone 'Hud Hud' so it will take time to implement at these locations.

OCC advised all constituents to implement the Pollution Mapping as early as possible. OCC also advised CTU/PGCIL to have direct interaction with the respective co-ordinators as well as TCC members of the concerned organization.

Powergrid may update the status.

### **Deliberation in the meeting**

*Powergrid updated the status as follows:*

Utility	Scope	Dummy Insulators Installed	Balance grids (Pending Location)	Co- coordinators
BSPTCL	59	52	7	Shri Brij Mohan AEE, BSPTCL
JUSNL	67	27	40	Shri Ajay Prasad, ESE, CRITIL, JUSNL
WBSECTL	74	62	12	Shri Ram Prasad Mandal, SE(E), WBSETCL
WBSEDCL				
OPTCL	164	102	62	Shri Jayant Senapati, DGM (Elect.) OPTCL
Sikkim	12	9	3	Jeewan Thapa, EE (EHV)
POWERGRID ER 1	96	96	0	
POWERGRID ER 2	43	43	0	
POWERGRID Odisha	43	43	0	

*Further, Powergrid informed that the Instrument Kits for measurement related to Pollution Mapping were expected to be delivered to the constituents by 30<sup>th</sup> November, 2014.*

*OCC advised all constituents to complete the installation of dummy insulators for the Pollution Mapping as early as possible.*

**Item no. B.13: Certification through BIS as per IS 18001:2007 to all generating/ transmission units. (Item No. B9 of 84<sup>th</sup> OCC meeting)**

In 84<sup>th</sup> OCC meeting all constituents were requested to interact with BIS with intimation to ERPC and get certified as per CEA direction.

In 85<sup>th</sup> OCC NTPC informed that, NTPC-Farakka has been certified with IS 18001. Other constituents including OHPC requested to interact with BIS with intimation to ERPC and get certified as per CEA direction. The matter is getting reviewed by highest authorities with top priority.

In 88<sup>th</sup> OCC NTPC informed that, all NTPC stations in Eastern Region are certified with IS 18001. NHPC informed that, Teesta is also certified with IS 18001.

After that, OHPC and CESC informed that their stations are certified with IS18001.

Members may note and update the status.

**Deliberation in the meeting**

*Members noted.*

**Item no. B.14: Procurement of Emergency Restoration System (ERS Towers) for Eastern Region constituents- Powergrid**

In 102<sup>nd</sup> OCC, Powergrid informed that FR is under approval stage.

A meeting was taken by Member (Power System), CEA on 10.11.2014 at N. Delhi for formulation of plan for procurement and placement of ERS in the country wherein the latest status as well as the future plan was discussed. The latest status of Eastern Region as submitted in the meeting by ER constituents is enclosed at **Annexure-B.14**.

Powergrid may update the latest status.

**Deliberation in the meeting**

*Powergrid ER-II representative was not available for discussion.*

**Item no. B.15: Mock Black start exercises in Eastern Region – ERLDC**

**i) The status of black start exercises**

*In 102<sup>nd</sup> OCC, ERLDC informed that black start exercise for Rengai HEP was completed on 19.09.2014. The schedule of the Black start exercise as was updated by the members as follows:*

- *U. Indravati HEP :- Last week of October, 14*
- *Balimela:- 3<sup>rd</sup> week of November, 2014*
- *Theesta:- 2<sup>nd</sup> week of December, 2014*

Members may update.

**Deliberation in the meeting**

*The schedule of the Black start exercise as was updated by the members as follows:*

- *U. Indravati HEP :- First week of December, 14*
- *Balimela:- Done on 19<sup>th</sup> November, 2014*
- *Theesta:- 15<sup>th</sup> December, 2014*

- Sikidri:- 4<sup>th</sup> week of December, 2014
- Chuzachen:- January, 2015

House was informed that a workshop on Black Start Procedure is organized in North Bengal from 15<sup>th</sup> to 16<sup>th</sup> December, 2014. OCC advised constituents from North Bengal, Sikkim and adjoining area to attend the workshop.

## **ii) Testing of DG sets meant for Black start**

Report regarding test run of DG sets for the month of Oct, 2014 has not been received from any of the constituents. All test reports may be forwarded to [erldc.cal@gmail.com](mailto:erldc.cal@gmail.com) & [psdas\\_psd@yahoo.com](mailto:psdas_psd@yahoo.com).

Constituents may kindly ensure compliance.

### **Deliberation in the meeting**

*Members noted.*

## **Item no. B.16: Restoration of SCADA data**

Updated latest status is circulated in the meeting. During deliberations in 99<sup>th</sup> OCC it was pointed out by most of the constituents that SCADA problem in many locations are due to behind the schedule progress of work on the part of CTU/PGCIL. OCC advised Powergrid/CTU to expedite and restore at least the priority RTUs by 31<sup>st</sup> July, 2014.

Updated status in 102<sup>nd</sup> OCC is available circulated in the meeting.

CTU may update.

### **Deliberation in the meeting**

*Updated status is enclosed at Annexure-B.16.*

## **Replacement of RTUs at Kahalgaon, NTPC**

NTPC in 98<sup>th</sup> OCC informed that on account of the fire incidence in RTU & SIC panels of the ULDC system at NTPC-Kahalgaon Switchyard control room, the real time data transmission to ERLDC for generation & power flow of various lines have stopped since 18<sup>th</sup> June, 2014. These RTU & SIC panels are the assets of PGCIL and needs to be made available by PGCIL at the earliest.

In 102<sup>nd</sup> OCC, Powergrid informed that LOA has been placed to M/s. Deejay. RTU integrated & Unit side data (MW/MVAR) made available at ERLDC as per commitment. Other feeders integration will be done by in phase manner within December 2014.

Concerned Member may update.

### **Deliberation in the meeting**

*Powergrid informed that the work will be completed in schedule.*

## **Item no. B.17: Agenda from ULDC -- BSPTCL**

### **1) Delay in Up-gradation Scheme of ULDC of BSPTCL:**

As per decision of the ERPC, BSPTCL has entrusted Powergrid vide BSPHCL office letter no.2386 dated 05.12.12, to execute the up-gradation / replacement of data/ voice telemetry



of all operating as well as under construction GSS under BSPTCL region. This includes the replacement of RTUs installed under ULDC-ER phase-I project.

44 RTUs were delivered without cable. Now cable for only 20 nos RTUs has been delivered. Installation of these RTUs has been taken up by the contractor from 29th August. But the work is slow. Whatever installation being taken up is not being commissioned. Power grid has been requested to increase the installation and commissioning team.

Also, hardware for Control Room has been delivered without cable, BSPTCL is pursuing for installation of equipments with Power grid and Chemtrols but outcome is pathetic.

The matter has been reviewed with Powergrid on 05.04.2014, 30.06.2014 and 19.08.2014, BSPTCL has expressed concern over the delay and directed Powergrid to expedite the work on priority to complete by October, 2014.

Communication package consisting of supply installation and commissioning of Fiber Optic Communication, PLCC communication. Auxiliary Power Supply System are not awarded to suitable vendor by Power grid yet. BSPTCL has repeatedly requested Power grid to expedite the work to meet the requirement of RTUs commissioning date to enable RTUs to communicate to SLDC, Patna. But Power grid is unable to confirm the target date and giving the reason of the constraint of installation team of OPGW.

BSPTCL apprehended that after installation of RTUs data cannot be communicated to SLDC, Patna and subsequently to ERLDC, due to non-availability of communication channel. So, BSPTCL has taken forward step to make the RTUs communicated over GPRS. BSPTCL is procuring GPRS devices as an interim arrangement in this regard. However, PGCIL may be requested to furnish target date for supply, installation & commissioning of RTUs along with communication and commissioning of new SLDC Centre.

## **2) Supply of MUX at Samastipur, BTPS and Jakkanpur site:**

It has been requested to Power grid to supply the communication equipment for fiber communication on priority as integration of 5 nos. of GSS under up-gradation scheme of ULDC shall depend on these equipments. It has come to know that 1<sup>st</sup> lot of equipments is being dispatched but BSPTCL does not find a place in it.

## **3) Underground laying of Fibre from jakkanpur to SLDC, Patna:**

ERPC has declared to FO communication of BSPTCL in commercial operation except Jakkanpur- SLDC UGFO link. The work of critical UGFO link from Jakkanpur to SLDC, Patna is yet to be completed by Power grid. BSPTCL has repeatedly requested Power grid to expedite the work.

## **4) Final bills of the advance payment already released for AMC charges of Wideband Communication System, Auxiliary Power Supply System and supply of battery bank.**

As agreed by PGCIL in the SCADA meeting held on 28.05.2014, the final bill has to be furnished by 15th June, 2014 but final bill of RTU has only been received till now. The final bill of AMC of Wide band communication, Auxiliary Power Supply System and the supply of battery bank is still awaited.

Further payment of APS is also held up for want of final bill of 1st to 5th half yearly advance payment released to Power grid.

In 101<sup>st</sup> OCC, Powergrid agreed to communicate the latest status within a week.

CTU may update.

In 102<sup>nd</sup> OCC, BSPTCL informed the following:

- Powergrid is working on to commission the control centre only with the available RTU. Data exchange Between ERLDC and SLDC shall depend on the commissioning of server at ERLDC
- Installation of 20 RTUs are under progress.
- Communication package is still pending with Powergrid.
- Mux has been delivered at Patna and being diverted to site.
- Laying of underground cable and commissioning from Jakkanpur to SLDC Patna under MW replacement scheme is still pending.

ERLDC informed that for server, FAT process is going on and after that the new sever will be installed at ERLDC, Kolkata.

Powergrid agreed to communicate the latest status within a week.

Powergrid may update.

### **Deliberation in the meeting**

*Powergrid informed that the latest status will be communicated within a week.*

### **Item no. B.18: Reactive Power performance of Generators and GT tap position optimization**

Maximum and minimum voltage was observed (data taken from SCADA)

Generating stations have been monitored for sample dates in the month of October 14:

Power Plant	Max and Min Voltage observed for Oct 14 (KV)	Date for monitoring (Oct 2014)
Farakka STPS	421, 404	4, 21
Khalgaon STPS	-	-
Talcher STPS	416,403	12, 2
Teesta	417, 394	28, 21
Bakreshwar TPS	411, 397	31, 9
Kolaghat TPS	424, 392	31, 9
Sagardighi TPS	422, 402	31, 22
MPL	423, 411	21, 23
Mejia-B	427, 414	23, 9
DSTPS	431, 417	23, 9
Adhunik TPS	432, 416	27, 9
Sterlite	430, 410	27, 18

ERLDC may update.

### **Deliberation in the meeting**

*ERLDC presented the performance of the generators and Members noted.*

#### **a) Optimization of GT tap position at Adhunik, Mejia-B and DSTPS**

In 97<sup>th</sup> OCC, members requested ERPC Secretariat to convene a special meeting for detail deliberation on tap changing proposal before next OCC.

Accordingly, a special meeting was convened on 27<sup>th</sup> June, 2014. During the meeting following tap position was agreed:

Sl. No.	Utility	Present GT tap position	Agreed tap position in the meeting
1	APNRL: GT-1	8	9
	APNRL: GT-2	3	4
2	Mejia-B, DVC	4	5
3	DSTPS, DVC	5	6

MPL was requested to submit MW, MVAR, voltage data of both HV and LV side of GT/Generator terminal for the past months and GT tap details for analysis, so that decision on the required tap position could be decided in next OCC. MPL agreed to provide the required data to ERLDC.

Subsequently, DVC vide mail dated 3<sup>rd</sup> July, 2014 informed that GT tap position of MTPS units U#7&8 has been changed from Tap no. 4 to Tap no. 5.

In 99<sup>th</sup> OCC, DVC informed that DSTPS tap will be changed after ensuring the improvement of voltage profile is sufficient for synchronization of units, which will be checked by opening 400 kV DSTPS-Jamshedpur line during shutdown of both the units.

MPL informed that the required data had been submitted to ERLDC. The status of Adhunik units could not be updated as they were not available in the meeting.

Thereafter, ERLDC informed that data from MPL has been received and the same is being studied for requirement of change of GT tap position.

In 100<sup>th</sup> OCC, Adhunik informed that their unit #2 was under long shutdown due to stator earth fault. They will change their tap before synchronization of unit #2.

In 101<sup>st</sup> OCC, ERLDC informed that MPL should also reduce the GT tap from tap position 5 to 6. MPL informed that they will confirm in the next OCC.

In 102<sup>nd</sup> OCC, APNRL informed that they have changed the GT tap position of both the GTs as per agreed settings.

MPL informed that they may face high voltage problem while synchronization of their generator with the agreed GT tap position.

ERLDC assured that they will take care of the voltage problem during synchronization of their generator and advised to change the GT tap position.

MPL agreed.

ERLDC and MPL may update the status.

### **Deliberation in the meeting**

*MPL informed that they need clear cut written communication from ERLDC that during synchronization of their generators what actions they need to take.*

*ERLDC once again assured that they will take care of the high voltage during synchronization of the generators.*

*Since the deliberations are already noted in the minutes of special meeting of GT tap, OCC felt no separate written communication is required and advised MPL to change the tap position.*

*MPL agreed.*

## **PART C:: OPERATIONAL PLANNING**

### **Item no. C.1: Shutdown proposal of transmission lines and generating units for the month of Dec' 14**

Members may also finalize the Shutdown proposals of the generating stations and transmission lines for the month of Dec' 14 as circulated in the meeting.

Members may confirm.

#### **Deliberation in the meeting**

*Approved maintenance programme of generating stations and transmission elements for the month of December, 2014 is at **Annexure-C.1**.*

### **Item no. C.2: Anticipated power supply position during Dec'14**

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of Dec'14 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2014-15, keeping in view that the units are available for generation and expected load growth etc. and circulated in the meeting

Members may confirm.

#### **Deliberation in the meeting**

*Modified anticipated power supply position for the month of Dec, 2014 after incorporating constituents' observations is given at **Annexure-C.2**.*

### **Item no. C.3: Prolonged outage of power system elements in Eastern Region**

#### **(i) Generating units:**

<b>Generating Station</b>	<b>UNIT NO</b>	<b>CAP(MW)</b>	<b>DATE</b>	<b>REASONS FOR OUTAGE</b>	<b>Date of restoration</b>
MEJIA B	7	500	11.10.14	SUPER HEATER TUBE	30 <sup>th</sup> Nov, 14
STERLITE	3	600	25.10.14	DESYNCHRONIZED DUE	Available
GMR	3	350	08.11.14	DESYNCHRONIZED DUE	Available
MPL	1	525	09.11.14	GT FAILURE	1 <sup>st</sup> Dec, 2014
MEJIA	2	210	05.09.14	COAL SHORTAGE	
WARIA	4	210	18.09.14	COAL SHORTAGE	
DSTPS	1	500	08.09.14	COAL SHORTAGE	
KODERMA	2	500	04.08.14	ASH POND PROBLEM	
KODERMA	1	500	12.11.14	ASH HANDLING PROBLEM	
BANDEL	5	210	16.11.13	MAINTENANCE	
BOKARO B	1	210	18.10.14	TUBE LEAKAGE	
KOLAGHAT	4	210	15.09.14	TUBE LEAKAGE	
JITPL	1	600	16.08.14	LEAKAGE IN STATOR	
MEJIA	4	210	09.11.14	GENERATOR PROTECTION	
BOKARO B	3	210	29.10.14	TUBE LEAKAGE	

## (ii) Transmission elements

Name of the Line/Element	Outage Date	Reason	Date of restoration
220 KV JEERAT - SATGACHIA D/C	15.06.10	DUE TO LAND SLIDE OF GANGES RIVER BANK	
220 KV MENDHASAL - NARENDRAPUR - II	12.10.13	TOWER COLLAPSE	
400 KV JEYPORE-GAZUWAKA-I	12.10.14	TOWER COLLAPSE	
400 KV JEYPORE-GAZUWAKA-II	12.10.14	TOWER COLLAPSE	
220 KV BUDDHIPADAR- KORBA -II	30.10.14	S/D AVAILED BY OPTCL	
400 KV TALA-BINAGURI-I	03.11.14	LINE OPENED DUE TO O/V	
220KV THERUVALLI-INDRAVATI III & IV	24.06.14	TOWER COLLAPSE AT LOC.47	
220KV RENGALI(SW)-RENGALI-II	OCT,14	CT REPLACEMENT WORK AT RENGALI(SW)	

Members may update.

### Deliberation in the meeting

*Members updated the latest status.*

#### **Item no. C.4: Information regarding commissioning of new transmission element**

1. 220 kV EMBYPASS-New Cossipore of CESC, UG Cable was charged for the first time at 16:29 HRS of 08/10/14.
2. 400 kV Binaguri-Rangpo-II (400 kV Teesta-Binaguri-II made LILO at Rangpo) was charged for the first time at 19:47 HRS of 29/10/14.
3. 400 kV Teesta-Rangpo-II (400 kV Teesta-Binaguri-II made LILO at Rangpo) was charged for the first time at 20:28 HRS of 29/10/14.
4. 400 kV Jamshedpur-Chaibasa-I (400 kV Jamshedpur-Rourkela-I made LILO at Chaibasa) was charged for the first time at 18:44 HRS of 30/10/14.
5. 400 kV Rourkela-Chaibasa-I (400 kV Jamshedpur-Rourkela-I made LILO at Chaibasa) was charged for the first time at 19:36 HRS of 30/10/14.
6. 765/400 kV, 3\*500 MVA ICT-I at Jhasuguda was charged for the first time at 19:30 Hrs of 31/10/14. 240 MVAR L/R of 765 kV Jhasuguda-Angul-II at Jhasuguda was charged for the first time as B/R at 22:50 Hrs of 31/10/14.
7. 132/33 KV, 50 MVA new power transformer charged on load on 01.10.2014 at Sitamarhi GSS.
8. 220/132 KV, 100 MVA new power transformer charged on load on 13.10.2014 at Fatuha GSS.
9. 132/33 KV, 50 MVA new power transformer charged on no load on 28.10.2014 at Gangwara GSS.
10. 132 KV Kudra-Kochas Transmission line (single circuit) of length 27.43 KM charged on 28.10.2014.

Members may update.

### Deliberation in the meeting

*Members noted.*

#### **Item no. C.5: Status of commissioning of generating station and transmission elements**

##### **New generating units:**

S.No.	Power Plant	Plant Size	Expected date
1	Koderma Unit#2	2x500MW	
2	Corporate Power Unit#1	2x270MW	
3	Teesta-III Unit#1	1x200MW	

4	Raghunathpur Unit#1	2x600MW	
5	TLDP-IV	1x40MW	

#### **New transmission elements:**

Sl No.	Name of Element	Expected date
1	400 kV Maithon-Gaya D/C	
2	400 kV Gaya-Koderma D/C	
3	400kV Sasaram-Daltonganj D/C & Daltonganj S/Stn	
4	400 kV Ranchi-Raghunathpur D/C	
5	400 kV Meramandali-Dubri D/C	
6	400 kV Corporate- Ranchi D/C	
7	400 kV IB-Meramandali D/C	
8	220 kV TLDP-IV – NJP ckt-2	2014
9	220 kV Jeerat-Rishra D/C	
10	220 kV Latehar-Daltonganj D/C	
11	220 kV Lohardaga-Lathehar D/C	
12	220 kV Bidhansai-Cuttack D/C	
13	220 kV Girdih-Koderma D/C	Sep, 2014
14	400kV Rajarhat-Purnea D/C(with LILO of one circuit each at Farakka and Gokarno)	
15	Augmentation of 400kV Farakka-Malda D/C with HTLS conductor	

Members may update.

#### **Deliberation in the meeting**

*Members updated.*

### **PART D:: OTHER ISSUES**

**ERLDC may update the following:**

#### **Item no. D.1: UFR operation during the month of Oct'14**

System frequency touched a minimum of 49.53Hz in October'14. Accordingly, no report of operation of UFR has been received from any of the constituents.

ERLDC may update.

#### **Deliberation in the meeting**

*Members noted.*

#### **Item no. D.2: Grid incidences during the month of Oct, 2014**

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	Lalmatia (JSEB)	01/10/14 at 10:36hrs	0	120	Power supply interrupted at Lalmatia due to tripping of 220kV FSTPP-Lalmatia on earth fault.	GD-1
2	OPTCL (Rengali)	07/10/14 at 13:01hrs	50	10	Due to suspected earth fault in 220kV Rengali (S/Y)-Barkote, total power failure occurred in 220kV Rengali (S/Y) and at Barkote. Unit#1 of Rengali PH and 400/220kV, 315MVA ICT-I at Rengali (PG) also tripped at the same time.	GD-1

3	OPTCL (South Odisha)	12/10/14 at 10:47hrs		800	Very severe cyclone “Hud Hud” had landfall (hit land) at Vishakhapatnam with a wind speed of 195kmH causing damage to the power disruption in DISCOMs as well as transmission network of OPTCL in southern part of state.	GD-1
4	OPTCL (Meramundali, Old & New Dubri, Visa, Rohit, JSL, Paradeep)	14/10/14 at 20:56hrs	0	477	Due to bursting of Y-Ø PT of 220kV Meramundali Bus-I with heavy fire, all the 400/220kV ICTs and 220kV line emanating from Meramundali S/S tripped	GD-1
5	132kV Purnea (BSPHCL) S/s	26/10/14 at 10:36hrs	0	150	Total power failure occurred at 132kV Purnea (BSPHCL) s/s due to fault in 132kV Purnea (BSEB)-Khagariya line.	-
6	132kV Purnea (BSPHCL) S/s	28/10/14 at 04:52hrs	0	150	Total power failure occurred at 132kV Purnea (BSPHCL) s/s due to tripping of 132kV Madhepura-Supaul-D/C on O/C protection.	-

### **Deliberation in the meeting**

*Members noted.*

### **Item no. D.3: Any other items**

#### **D.3.1. Power Export from Bihar to Nepal**

Details such as maximum power and energy exported to Nepal through each tie, voltage profile at exporting S/Stns and transmission constraints encountered in BSPTCL if any, for exporting such power, are being frequently sought by NLDC / CEA /MOP.

SLDC, BSPHCL may therefore please furnish detailed information on power exported to Nepal, as per the following format, on a monthly basis to ERLDC:-

S. No	Name of The Feeder	Sep'14					BSPTCL end voltage at the time of max export
		Whether in Operation (Yes/No)	Power Flow			Date & Time of maximum (MW) export	
			Average (MW)	Energy Exported (in MU)	Maximum (MW)		
1	132 kV Kataiyya(GSS)-Duhabi(Nepal) S/C						
2	132 kV Valmikinagar-Surajpura(Nepal) S/C						
3	33 kV Kataiya-Biratnagar (Nepal) S/C						
4	33 kV Kataiya-Rajbiraj (Nepal) S/C						
5	33 kV Sitamarhi-Jaleswar (Nepal) S/C						
6	33 kV Jaynagar-Sirha (Nepal) S/C						
7	33 kV Rauxsaul-Birganj (Nepal) S/C						
8	11 KV Sursand-Jaleshar(Nepal)S/C	-					

The above details may be mailed to [erldc.cal@gmail.com](mailto:erldc.cal@gmail.com) and psdas\_psd@yahoo.com on a monthly basis.

BSPHCL may update.

### **Deliberation in the meeting**

*BSPHCL agreed to submit the information on monthly basis.*

### **D.3.2. Updating of Restoration Procedure of Eastern Region for 2014**

The Restoration Procedure of Eastern Region has been updated till the current year. Soft copy of the draft updated procedure would be circulated among OCC members during the meeting.

Members may offer their valuable observations by 7-12-14 for finalization of the procedure.

In this connection, updated information pertaining to restoration of traction supply in Eastern Region was sought vide ERLDC/SS&MIS/2014/2446 dated 24-10-14, addressed to Eastern Railways, East-Central Railways, South-Eastern Railways, East-Coast Railways and South-East-Central Railways.

However, no comments have been received from them, despite requesting them once again vide email dated 5-11-14. Under the circumstances, it is presumed that there are no changes in the information pertaining to traction supply.

ERLDC may explain.

#### **Deliberation in the meeting**

*ERLDC circulated the Restoration Procedure of Eastern Region for 2014 and requested to send their comments by 7<sup>th</sup> December, 2014 for finalization of the procedure.*

*All constituents agreed.*

### **D.3.3. Furnishing of details i.r.o tripping of 220kV and lines in ER Grid**

As per discussions in the last PCC meeting, tripping of all 200kV and above lines are to be discussed in the PCC meetings. Also, ERLDC is required to notify the violation of protection standards for trippings in 220kV and above lines including inter-regional lines. It is hence requested that all constituents may kindly furnish details of trippings alongwith DR/EL outputs within 24hours of the event as per IEGC.

The details may be sent as per the format for disturbance reporting which has already been circulated.

Members may update.

#### **Deliberation in the meeting**

*Members noted for compliance.*

### **D.3.4. Negative charges on account of PTC bidding on outages of units due to reason not attributable to NHPC**

As per "Implementation plan for power supply regulation to SBPDCL by 'NHPC Limited' issued vide letter no: ERLDC /Regulation /21/2014/828 dated 17/06/2014, Teesta-V Power Station is submitting one day advance PTC bid against allocated power generation to SBPDCL@ 13.3938% of schedule generation. It is pertinent to mention that bid once submitted to PTC is not allowed to be modified later on. However, Teesta-V Power Station has to suffer monetary losses due to outages of machine for reasons not attributable to the Power Station.

Recently, on 29<sup>th</sup> October 2014, generation from Teesta-V Power Station became NIL from due to tripping of 400kV Teesta-V Rangpo Line-1 at 12:13:30 Hr on direct trip received from ABB PLCC Channel-2 at Rangpo S/S. The other line Teesta-V Rangpo Line-2 was already under shut down for LILO work being done by PGCIL, Rangpo. The line-1 was finally restored at 12:47:25Hr and due to this, the power generation became NIL in the following blocks:



<b><u>BLOCK NO.</u></b>	<b><u>TIME BLOCK</u></b>	<b><u>MW</u></b>
50	12:15-12:30	0
51	12:30-12:45	0
52	12:45-13:00	0

The matter was reported to ERLDC with a copy endorsed to PGCIL vide our letter no. TSV/IMS/PHO/115 dated 29.10.2014.

In this regard, a suitable mechanism for reimbursement of negative charges incurred due to non adherence of generation schedule as submitted to PTC may be evolved for all outages which are not attributable to the NHPC, Teesta-V Power Station. Otherwise either no negative charges be imposed by PTC on NHPC or revision in schedule may be allowed by PTC in case of less generation for reasons not attributable to the Power Station.

Members may discuss.

#### **Deliberation in the meeting**

*OCC informed that there is no such direct mechanism to reimburse the negative charges under these circumstances.*

*OCC advised NHPC to communicate the issue to Powergrid and ERLDC for certification of no evacuation path.*

*OCC referred the issue to Commercial Committee Meeting for further deliberation.*

#### **D.3.5. Non functioning of main meter (NP-5896-A) at Teesta end of 400 kV Rangpo line-1**

The Main Meter (NP-5896-A) installed in line Teesta-V Rangpo Line-1 is non functional since last 3 months and consequently SEM data from this meter is not being provided to ERLDC. Presently data for this line is being provided by the Check Meter (NP-5895-A). Keeping in view the provision of CEA Metering Regulation 2006 and subsequent amendments, it is requested to do necessary action for replacement of the defective Main meter at the earliest. The matter has been taken up with ERLDC and PGCIL through emails but remedial action is awaited.

ERLDC/PGCIL may update.

#### **Deliberation in the meeting**

*PGCIL ER-II representative was not available for discussion.*

#### **D.3.6. Rectification/replacement of the defective tie line meter for 220kV DVC (Kalyaneswari)-PGCIL (Pithakari ) line at DVC end**

DVC vide their letter dated 7<sup>th</sup> November, 2014 informed that in spite of repeated persuasion with ER-II, PGCIL, for the early rectification / replacement of the defective tie line meter at DVC end for 220kV DVC (Kalyaneswari)-PGCIL (Pithakari ) line, no responsive action from ER-II, PGCIL has been received yet. The matter was even discussed in the 27<sup>th</sup> Commercial Sub-Committee meeting. But still no fruitful result was noticed. Meanwhile another tie line meter at DVC end for 400kV Mejia(DVC)-Maithon(PGCIL) line (Meter no.NP 6535 A) has become out of order and no data can be downloaded from that meter.

This is very unfortunate that important interstate tie line meters remains out of service and UI calculation is made based on average basis for months after months. Even the letter from

Member Secretary, ERPC to GM, ER-II, PGCIL dated 19.09.2014 in this matter failed to get any confirmation/ status report from PGCIL.

It is therefore, requested to please look into the matter for finding the way out of this problem so that DVC will not have to bear the loss in 220kV Maithon(PG)- Kalyaneswari(DVC) and 400kV Mejia(DVC)-Maithon(PGCIL) line unilaterally for indefinite period.

DVC/PGCIL may update.

### **Deliberation in the meeting**

*Powergrid ER-II representative was not available for discussion.*

#### **D.3.7. Augmentation of 3rd ICT at 400kV Jeypore s/s.**

The 2 nos. of 315 MVA ICT's at Jeypore s/s are getting loaded up to 200 MW each many times. In such a scenario, tripping of any one ICT will lead to tripping of second ICT also. The ICT-I has already completed 25 years and its performance also getting deteriorated. Hence, it is proposed to approve for 3 rd ICT, in view of contingency & reliability.

In 101<sup>st</sup> OCC, OPTCL explained that augmentation of transformation capacity as proposed by CTU may not be feasible at this juncture. It was informed that plan for proper load management in the affected areas are initiated and as implementation of the same, needs for augmentation of transformation capacity could only be ascertained.

OCC advised OPTCL to give their proposal for relief of ICTs.

In 102<sup>nd</sup> OCC, OPTCL requested Powergrid to give the test reports of the ICTs for analysis.

OCC advised Powergrid to give the test reports and loading pattern of ICTs to OPTCL. Powergrid agreed.

After deliberation, OCC agreed to the proposal of augmentation for 3<sup>rd</sup> ICT of 500 MVA at 400kV Jeypore S/s. The issue was referred to TCC.

OPTCL may update.

### **Deliberation in the meeting**

*OPTCL expressed their reservation on argumentation of 3<sup>rd</sup> ICT at 400kV Jeypore S/s and asked for test reports for further analysis at their end.*

*OCC advised Powergrid to submit the test reports to OPTCL and decided to review the issue after receiving the comments of OPTCL before referring to TCC.*

#### **D.3.8. High voltage problem at 400kV Jeypore OPTCL Substation—OPTCL**

In 101<sup>st</sup> OCC, OPTCL has submitted the voltage data from 01.09.2014 to 21.09.2014 and informed that the maximum voltage is recorded as 246kV & minimum is 238kV.

OPTCL informed that at present ICT tap position at 400kV Jeypore S/s is at tap position 14 and requested for further lowering of ICT tap position by two taps.

In 102<sup>nd</sup> OCC, ERLDC informed that further lowering of ICT tap position would cause some voltage excursion on 400 kV side and informed that it will be reviewed after HVDC Gajuwaka-Jeypore line is available.

Powergrid may update.

#### **Deliberation in the meeting**

*OPTCL informed that they are still facing high voltage problem at 400kV Jeypore S/s and requested to resolve the issue.*

*ERLDC informed that high voltage will be regulated as and when 125 MVAR reactor at Jeypore S/s is commissioned.*

*OCC felt Powergrid may shift the reactor from some other place for immediate relief.*

*Since Powergrid ER-II representative was not available for discussion, the issue was referred to next OCC.*

#### **D.3.9. Paralleling of 100MVA, 220/132kV ICT with 160 MVA, 220/132kV ICT temporarily at Purnea S/s**

The 100MVA, 220 /132KV ICT-III has been replaced with 160 MVA, 220 /132KV ICT at Purnea substation. The replacement of 100MVA 220/132KV ICT-I & II are planned with 160MVA, 220/132 KV ICTs in February and April, 2015 respectively. At present the load at Purnea 220 /132KV substation is around 250-260MW, which includes the Nepal load also.

To facilitate the present power requirement at Purnea and during replacement of the ICTs, as per request of BSTPCL, it is planned to connect the spare 100MVA ICT parallel with the existing 160MVA ICT on temporary basis by ERS arrangement and doing some minor work. The total cost involvement for the aforesaid work is around 25-30 lacs.

#### **Deliberation in the meeting**

*OCC agreed to the proposal and referred to TCC for further approval.*

#### **D.3.10. Commissioning of Ind-Bharath to Jharsuguda D/C(dedicated line)--ERLDC**

The interim LILO of 400kV Jharsuguda-Raigarh-I at Ind-Bharath has been commissioned on 12/11/14. As per decisions taken, it needs to be noted that the above LILO is an interim arrangement for the purpose of drawal of start up power only. As confirmed in the last OCC meeting, Ind-Bharath would be completing the Ind-Bharath-Jharsuguda D/C(dedicated line) by December,2014. Ind-Bharath may confirm the latest status in this regard.

#### **Deliberation in the meeting**

*ERLDC informed that LILO of 400 kV Jharsuguda-Rourkela line at Ind-bharat was allowed for 1 month w.e.f. 12<sup>th</sup> November, 2014 for drawing start up power only.*

*OCC felt that Ind-Bharath should utilize this LILO only for drawing start up power and not for injection of power. They should bring their dedicated ATS in time for injecting the power into the grid.*

#### **D.3.11.Persistent over drawal by West Bengal and Odisha--ERLDC**

It has been observed that West Bengal and Odisha are persistently overdrawing from the Grid for the past few days. In spite of repeated messages no significant reduction of such over drawal is observed and high over-drawal in terms of daily energy consumed are being observed. It is emphasized that proper forecast of demand may be carried out and adequate planning for

demand management done so that such such over-drawals are controlled. Also, suitable demand management may be carried out in Real Time so that any over-drawal of West Bengal and Odisha are curtailed. It may kindly be noted that in case of persistence of such continued over-drawal , ERLDC would be constrained to resort to opening of tie/radial lines to curtail such over-drawal.

WBSETCL/OPTCL may kindly and take remedial measures to prevent such persistent over-drawal.

#### **Deliberation in the meeting**

*OCC advised WBSETCL and OPTCL to prevent such persistent over-drawal from Grid.*

*WBSETCL and OPTCL agreed.*

#### **D.3.12.Application, Cancellation and re-scheduling of shutdowns confirmed previously in the OCC meeting--ERLDC**

An uniform procedure for availing shutdowns developed by NLDC had already been circulated in the earlier OCC meetings. Presently, it is being observed constituents are not following the proper methodology for application, cancellation and re-scheduling of shutdowns approved in the OCC meetings. Accordingly, all constituents are requested to ensure that all applications, cancellations and re-scheduling of shutdowns which have been previously confirmed in the OCC meetings are done at least 3 days in advance, to enable proper management of outages being availed by constituents.

#### **Deliberation in the meeting**

*Members noted for compliance.*

#### **D.3.13.High voltage problem in WBSETCL system**

WBSETCL informed that during this winter season they are facing high voltage problem at Subashgram, NJP and Birpara S/s during light load period and requested for changing the Tap Position of respective ICTs.

#### **Deliberation in the meeting**

*ERLDC informed that they will study and report in next OCC.*

Meeting ended with vote of thanks to the chair.

\*\*\*\*\*

**Participants in 103<sup>rd</sup> OCC Meeting**

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 25.11.14 (Tuesday)

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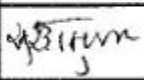
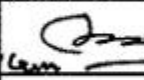
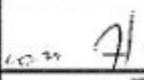
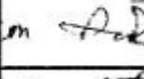
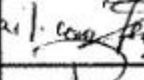

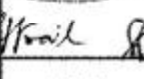
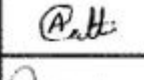
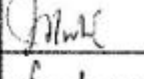
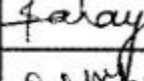

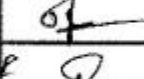
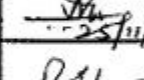
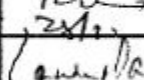
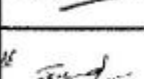
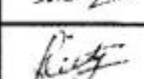
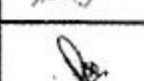
"Coming together is a beginning, staying together is progress, and working together is success." – Henry Ford

### Participants in 103<sup>rd</sup> OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 25.11.14 (Tuesday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
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### Participants in 103<sup>rd</sup> OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 25.11.14 (Tuesday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
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60						

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**OVER VOLTAGE RELAY SETTINGS HAS NOT GIVEN BY  
FOLLOWING CONSTITUENTS**

**ER-II**

- 400 KV Durgapur-Sagardighi-II (At Durgapur end)
- 400 KV GAYA-MAITHON-II (At Maithon end)
- Rangpo S/s (All lines)
- 400kV Binaguri-Bongaigaon-III (At Binaguri end)
- 400kV Binaguri-Bongaigaon-IV (At Binaguri end)
- 400kV Jharsuguda-IBEUL (At IBEUL end)

**ER-II**

- Chaibasa S/s (All lines)

**DVC**

- 400KV Jamshedpur-TISCO (At TISCO end)
- 400KV TISCO-Kalabadia (At TISCO end)
- 400KV Gaya-Koderma-II (At Koderma end)

**IBEUL**

- 400kV Jharsuguda-IBEUL (At IBEUL end)

**DATA MISMATCHING TABLE**

S.NO	DATA1	DATA2	LINE NAME	DATA MISMATCHING END
1	ER-II	ER-II	400 KV RENGALI-INDRAVATI	INDRAVATI
2	ER-II	ER-II	400 KV ROURKELA-JAMSHEDPUR-I,II	JAMSHEDPUR
3	ER-II	APNRL	400 KV JAMSHEDPUR-APNRL	JAMSHEDPUR
4	ER-II	TALA	400 KV TALA-BINAGURI- I,II,III,IV	TALA
5	ER-II	TEESTA	400 KV TEESTA-BINAGURI-II	TEESTA
6	OPTCL	ER-II	400 KV BARIPADAI-MENDHASAL-I	BARIPADA
7	OPTCL	ER-II	400 KV BARIPADAI-MENDHASAL-II	BOTH ENDS



### Eastern Regional Power Committee

The present status of ERS towers in Eastern Region as submitted during ERS meeting held on 10.11.14 taken by Member (Power System), CEA is given below:

- 1) As per 100<sup>th</sup> OCC meeting held on 22.08.2014, the status of ERS towers as available in Powergrid is as given below:

Sl. No.	Name of S/S	No. of ERS towers available	ERS towers in use
1	Durgapur, ER-II	1 Set (8 towers)	One no. tower having 170 ft has been erected in 220 kV Faraka-Lalmatia line near Farakka.
2	Rourkela, ER-II	1 Set (8 towers)	
3	ER-I (located at Jamshedpur)	15 towers (10 nos Tension tower and 5 nos suspension tower)	

- 2) As informed by OPTCL, the present status of ERS towers in OPTCL system is as follows:

- 220 kV ERS towers: 42 nos located at Mancheswar, Chatrapur & Budhipadar
- 400 kV ERS towers: 2 nos located at Mancheswar.
- 12 nos. of new 400 kV ERS towers have been approved by Board of Director for procurement in the current financial year.
- Another, 16 nos of 400 kV towers accompanied with 6 sets of T&P are required.

- 3) WBSETCL informed that they have placed order for 2 sets of ERS towers on 31.10.2014 and expected by March, 2015.

- 4) The 25<sup>th</sup> ERPC meeting held on 21.09.2014, the board concurred to the proposal of procurement of four sets of ERS and it was also informed that, the proposed four sets of ERS will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

Powergrid informed that four sets of ERS for Eastern Region will be procured.

- 5) Bihar informed that they have 2 sets of 220 kV ERS towers and 2 sets are under process of procurements. However, they require 7 more sets of 400 kV level ERS towers to cater the emergency.
- 6) DVC informed that they are in process of procuring two (2) sets of 400 kV ERS towers.

### **Latest status on non-availability of SCADA data**

It was informed by ERLDC that some constituents are not updating single line diagram in SCADA as per actual real time network and same is causing lack of network visibility.

All constituents agreed to update SCADA single line diagram as per real network time to time and will furnished the same to ERLDC also .

The status as updated in the 103<sup>rd</sup> OCC meeting is as given below:

- i) List of RTU supplied under ULDC Project but data is faulty/ intermittent:

SL no	Name of Utility	kV	Name of station	Reason for not reporting	Latest status as on 25.11.14
1	DVC	220	CTPS-B (2 x 250 MW)	Except GT MW & line flow, no data available	No CB/isolators status available. KV /HZ . Unit site MW/MVAR . Bokaro-B I & II line flow , Station Transformer value not available,

- ii) List of additional elements/feeders whose data is not available – station under ULDC project:

SL no	Name of Utility	KV	Name of station	Reason for non reporting	Latest status as on 25.11.14
1	NTPC	400	Farakka: (3x200+ 2x500MW)	MW, MVAR of primary (LV) side of all GT is not available.	Ok .
2	OPTCL	220	Vedanta (9x135 MW)	No status points are available.	No isolators status are available. MW/ MVAR not available for sterlite 1/2 line, station transformer / Smelter. CBs of Bus coupler not available. Bus-1 KV/ HZ not available.

- iii) The List of RTU supplied under BSEB ULDC Project but data is faulty/ intermittent:

S/n	Name of RTU locations	Latest status as on 25.11.14
1	Jakkanpur, Khagaul RTU, Dumraon, Karmanasha, Sitamarhi, , Purnea & Koshi	Data is reporting intermittently.
2	Hathidah, Lakhisarai & Darbhanga	Data is reporting intermittently.. Due to re-conductoring work in Darbhanga- Samastipur T/L, Darbhanga is not reporting temporarily.
3	Samastipur	Now reporting.
4	BTPS	RTU dismantled. Renovation/overhauling work is going on. SAS is expected to be operational by the November, 2014.
5	Begusarai, Rajgir and Hajipur 220 kV	Begusarai & Rajgir is reporting. <i>Hajipur is temporarily down, BSPTCL working to restore it.</i>
6	Jagdishpur, Sipara, Madhepura	RTU has been supplied by PGCIL under Sub-transmission project of Bihar but commissioning is left out. Now, it will be done in ULDC upgradation scheme.
7	Siwan, Valmikinagar, Gopalganj, Kisanganj and Arrah	RTU along with communication has been included in the scope of work of Powergrid under up gradation/ replacement scheme of ULDC. It was scheduled to be completed by Oct'14. <i>RTU supplied by M/s. Chemtrols except Darbhanga. RTU reached site.</i>

iv) The updated status of telemetry of JSEB Sub-Stations under ULDC project is as given below:

Sl. No.	Name of the RTU location	Latest Status as on 25.11.14
1	Ramchandrapur	Reporting is interrupted because of problem in PLCC link between Candil & Ramchandrapur. CVT brusted at Ramchandrapur bay and requires replacement. Arrangement in being done for its replacement.
2	Jamtara	Jamtara RTU has been shifted in new control room. POWER GRID has been requested to reintegrate the feeders in RTU as integration of additional feeder (new element) in the existing RTU. <i>Powergrid informed that Advance Payment towards new element integration is pending since long. After payment, M/s. ALSTOM will give the schedule of site visit for feeder integration.</i>
3	Deoghar	Both LMU & LMDU rusted at Jamtara. Arrangement inbeing done for its replacement. Deoghar-Jamtara-Maithon link is interrupted also because of snatching of patching cable at Maithon (G) and Maithon (SLDC). This was found during survey of sites with M/s PUNCOM which will be corrected by the agency under AMC. AMC by PUNCOM has been started.
4	Garawah	Garawah RTU will be restored when it will be connected from Ranchi end through Hatia-Loherdaga-Latehar-Daltonganj –Garwah Transmission lie.
5	Sikidri	Data restored
6	Patratu	
7	Tenughat	
8	Rajkharsawan	Reporting is interrupted because of shifting of Chandil bay at Rajkharsawan. PLCC outdoor equipment has been shifted recently to new location of Chandil bay at RКСN. Some work like termination of co-axial cable will be done soon.
9	Kendposi	
10	Goilkerа	
11	Jadugoda	Co-axial cable faulty at Golmuri (Chandil bay)

v) The updated status of telemetry of OPTCL Sub-Stations under ULDC project is project as given below:

S/n	Name of RTU Locations	Latest Status as on 25.11.14
1	Nalco	OPTCL informed that RTU is reporting but intermittent since it was not configured properly. The issue was already taken up with Nalco and it will be resolved soon.

vi) **RTU telemetry provided but data are intermittent / new element not wired.**

SL No	Name of station/ Utility	Reason for non reporting	Latest status as on 25.11.14
I	NHPC Rangit	No measurands are available for Gangtok 132 KV feeder in Rangit NHPC RTU	Ok.
II	Lalmatia JSEB	MW / MVAR/ OLTC tap of 220/132 KV ICT –II not available	MW/MVAR/OLTC tap of 220/132 KV ICT-II not available.
III	Mendhasal	400 KV Baripda 1 & 2	OPTCL informed that reporting except OLTC

		line flow and Reactors data, Tap position of both 400 ICTs not available since charging of bays.	data.
IV	JSPL (Meramundali - 400)	Most of the data not available .	OPTCL informed that they are taking matter with JSPL.
V	Jhasurguda 400	Data reporting is highly intermittent.	<i>Data reporting is intermittent .POWERGRID informed fibre link will be commissioned by 27/11/14 .</i>
VI	DVC		
	Ramgarh	Data for 220 KV bay not available	RTU Commissioned. Data reporting is intermittent.
	Putki		RTU installation Completed. RTU Cabling in progress.
	Patherdiah,		RTU reached site.
	Kalipahari		RTU reached site.
VII	Arrah(220)		Data stopped reporting since Aug 2014 . Communication problem.

vii) **Sub - Stations (220 & 132 kV) Telemetry not provided :**

SL No	Name of station/ Utility	Reason for non reporting	Latest status as on 25.11.14
I	WBSETCL		
	Subhasgram	RTU not provided for data telemetry	Data integrated
	New Bishnupur		Data integrated
	Bantala		Commissioning work completed. Data integrated
	New Town		Data integrated
	Krishna Nagar		RTU commissioned.
	Kalingpong		RTU is reporting.
	Karseong		RTU commissioned. Communication link to be provided by WBSETCL.
	CESC S/s: EM 220 kV		By January, 2015
	CESC : Kasba-132 kV, EM-132 kV Jadavpur, Chakmir, Majerhat and CESC Belur		By January, 2015
II	DVC		
	Burnpur	RTU not provided for data telemetry	Data integrated
	Dhanbad		Data integrated
	Chandil (Manique)		Data integrated
III	JSEB		
	Hatia New	RTU not provided for data telemetry	<i>RTU yet to be supplied by M/s. Chemtrols.</i>
	Manique (Chandil)		
	Japla		<i>RTU supplied by M/s. Chemtrols. RTU reached site for installation.</i>

## Annexure-C.1

### Proposed Maintenance Programme of thermal units during December, 2014.

SYSTEM	POWER STATION	Unit NO.	Effective Capacity	Maintenance Programme	Remarks	No.of Days
DVC	Mejia TPS	Unit No 8	500	10.12.2014 to 04.01.2015	AOH	25
WBDCL	BKTPP	Unit No 2	210	01.12.2014 to 04.01.2015	Blr. O/H	35
WBDCL	KTPS	Unit No 3	210	11.01.2015 to 20.01.2015	Blr. Maint	10
CESC	Titagarh TPS	Unit No 2	60	05.12.2014 to 08.12.2014	Statutory Hydraulic test	4
NHPC	Rangit HEP	Unit No 1		15.12.2014 to 11.01.2015	Annual Maint	28

**EASTERN REGIONAL LOAD DESPATCH CENTRE  
KOLKATA**

**TRANSMISSION ELEMENTS OUTAGE APPROVED IN 103rd OCC MEETING OF ERPC**

S/D APPROVED IN OCC									
Sr. No	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY
1	A/R OF 400 KV KHLG - MTN - II	26/11/14	06:00	31/12/14	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	NLDC
2	765KV MAIN BUS-2 AT NRNC	26/11/14	08:00	26/11/14	18:00	ODB	ER-I	FOR FINAL JUMPERING WITH EXTENSION OF 765KV BUS-2	NLDC
3	220 KV DLK- SLG-I	26/11/14	08:00	26/11/14	16:00	ODB	ER-II	AMP for 2014-15	
4	220KV MTN-DHN-I	26/11/14	09:00	26/11/14	17:00	ODB	ER-II	Y & B PH CVT replacement	
5	<b>400 KV BINAGURI - RANGPO</b>	<b>26/11/14</b>	<b>08:00</b>	<b>25/12/14</b>	<b>18:00</b>	<b>ODB</b>	<b>ER-II</b>	<b>OPGW STRINGING WORK</b>	NLDC
6	A/R 400 KV BOLANGIR - ANUGUL	26/11/14	08:00	25/12/14	18:00	ODB	ER-II	OPGW STRINGING WORK	NLDC
7	<b>A/R RENGALI - KEONJHAR</b>	<b>26/11/14</b>	<b>08:00</b>	<b>03/12/14</b>	<b>18:00</b>	<b>ODB</b>	<b>ER-II</b>	<b>OPGW STRINGING WORK</b>	<b>Either JSR - BRPD or Rengali - Keonjhar one will</b>
8	400 KV BSF- LAKHISARAI -2	27/11/14	09:00	27/11/14	18:00	ODB	ER-I	TO FACILITATE LILO OF OPGW AT LAKHISARAI	NLDC
9	400 KV KAHALGAON- LAKHISARAI -2	27/11/14	09:00	27/11/14	18:00	ODB	ER-I	TO FACILITATE LILO OF OPGW AT LAKHISARAI	NLDC
10	400 KV BUS - II AT MUZ	27/11/14	10:00	27/11/14	17:00	ODB	ER-I	FOR AMP WORK	
11	132 KV S/C PUNEA - SAHARSA LINE OF (BSPTCL)	27/11/14	08:00	28/11/14	18:00	ODB	ER-I	FOR STRINGING OF 400 KV D/C(QUAD) KISHANGANJ - PATNA T/L	BIHAR
12	132KV KONAR-HAZARIBAGH D/C	27/11/14	08:00	28/11/14	18:00	ODB	ER-I	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA TL AT LOC NO 62-63	BIHAR
13	132 KV D/C GOPALGANJ - MASRAKH (BSPTCL)	27/11/14	08:00	28/11/14	18:00	ODB	ER-I	POWERLINE CROSSING OF 800 KV HVDC LINE	BIHAR
14	125MVAR Bus Reactor-I	27/11/14	10:00	27/11/14	14:00	ODB	ER-II	CSD commissioning of Reactor	
15	765/400kv 1500MVA ICT-1 AT JHARSUGUDA	27/11/14	08:00	04/12/14	17:00	ODB	ER-II	Fire fighting Pylon support erection	NLDC
16	400KV BUS-1 AT ANUGUL	28/11/14	08:00	29/11/14	18:00	OCB	ER-II	Stringing of 400kv side conductor for incoming 765/400 KV ICT-II	
17	400KV Reactor-1 AT ANUGUL	28/11/14	08:00	29/11/14	18:00	OCB	ER-II	Stringing of 400kv side conductor for incoming 765/400 KV ICT-II	
18	ANGUL-JPTL LINE-1	28/11/14	08:00	29/11/14	18:00	OCB	ER-II	Stringing of 400kv side conductor for incoming 765/400 KV ICT-II	
19	ANGUL-JPTL LINE-2	28/11/14	08:00	29/11/14	18:00	OCB	ER-II	Stringing of 400kv side conductor for incoming 765/400 KV ICT-II	
20	<b>A/R 400 KV BARIPADA - JAMSHEDPUR</b>	<b>28/11/14</b>	<b>08:00</b>	<b>25/12/14</b>	<b>18:00</b>	<b>ODB</b>	<b>ER-II</b>	<b>OPGW STRINGING WORK</b>	<b>Either JSR - BRPD or Rengali - Keonjhar one will</b>
21	400KV Berhampore-Bheramara Ckt-I Line Bay	28/11/14	09:00	28/11/14	17:00	ODB	ER-II	AMP	NLDC
22	400KV Malda-Purnea-I	28/11/14	07:00	28/11/14	18:00	ODB	ER-II	Replacement of broken insulator strings damaged by miscreants & line isolator works under NTAMC & AMP	NLDC
23	400KV Berhampore Bus-I	28/11/14	09:00	28/11/14	19:00	ODB	ER-II	Bus extension work from existing Bus I	NLDC
24	132KV Sonal Bangla lilo of 132kv Gokarna-Lalgola line	28/11/14	07:00	28/11/14	19:00	ODB	ER-II	For stringing of 400KV Bahrampore-Sagardighi line	BIHAR
25	132 KV SLG-Melli	28/11/14	09:00	28/11/14	17:00	ODB	ER-II	AMP	SIKKIM
26	220 KV D/C BEGUSARAI - BIHARSHARIF TL (OF BSPTCL)	28/11/14	08:00	29/11/14	18:00	ODB	ER-I	FOR CROSSING OF 400 KV D/C QUAD KISHANGANJ - PATNA LINE (BETWEEN 149/0 & 150/0 )	BIHAR
27	220 KV BUS - II at Malda	28/11/14	10:00	28/11/14	17:00	ODB	ER-I	FOR AMP WORK	WBSETCL
28	100MVA ICT-I AT PRN	28/11/14	09:00	28/11/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
29	220 KV DLK- SLG-II	28/11/14	08:00	28/11/14	16:00	ODB	ER-II	AMP for 2014-15	
30	221KV MTN-DHN-II	28/11/14	09:00	28/11/14	17:00	ODB	ER-II	Bay AMP work	DVC
31	315 MVA ICT-V & 400 KV BUS-II at Malda	28/11/14	07:00	28/11/14	18:00	ODB	ER-II	BUS-II isolator works of ICT-V under NTAMC.	WBSETCL
32	<b>400 KV Bus coupler &amp; 400 KV BUS-II at Malda</b>	<b>28/11/14</b>	<b>07:00</b>	<b>30/11/14</b>	<b>18:00</b>	<b>OCB</b>	<b>ER-II</b>	<b>BUS-II isolator works of Purnea-I, Purnea-II, Farakka-II, 315 MVA ICT-III, Bus Coupler &amp; TBC under NTAMC. All feeders will be charged through TBC after one by one during isolator maintenance.</b>	<b>Please clarify. Is there any power interruption?</b>
33	400KV Berhampore-Bheramara Ckt-I Main Bay	29/11/14	06:00	29/11/14	18:00	ODB	ER-II	AMP	NLDC
34	400KV Malda-Purnea-II	29/11/14	07:00	29/11/14	18:00	ODB	ER-II	Replacement of broken insulator strings damaged by miscreants & line isolator works under NTAMC & AMP	NLDC

35	400KV Berhampore Bus-II	29/11/14	09:00	29/11/14	17:00	ODB	ER-II	Bus extension work from existing Bus II	NLDC
36	132 KV SLG-Dalkhola-2	29/11/14	09:00	29/11/14	17:00	ODB	ER-II	Insulator replacement work	WBSETCL
37	400 KV PTN - BALIA - 3	29/11/14	10:00	29/11/14	14:00	ODB	ER-I	FOR LINE MAINTENANCE WORK.	NLDC
38	400 KV JSR - RKL-II	29/11/14	08:00	29/11/14	18:00	ODB	ER-I	FOR ENERGIZING ITS LILO UPTO GANTRY AT CHAIBASA	
39	50 MVAR Bus Reactor at Rourkela	29/11/14	10:00	29/11/14	17:00	ODB	ER-II	AMP Work	
40	125MVAR Bus Reactor-II	29/11/14	10:00	29/11/14	14:00	ODB	ER-II	CSD Commissioning Reactor	
41	400KV Berhampore-Bheramara Ckt-II Main Bay	30/11/14	09:00	30/11/14	17:00	ODB	ER-II	AMP	NLDC
42	315MVA ICT-II at Maithon	30/11/14	09:00	30/11/14	17:00	ODB	ER-II	Testing of LA & 220KV CT Connector replacement work	DVC
43	315MVA ICT-I AT Binaguri	30/11/14	08:00	30/11/14	18:00	ODB	ER-II	For major attending crack of OLTC	
44	220 KV RANCHANDRA -JODA S/C (JSEB)	30/11/14	08:00	30/11/14	18:00	ODB	ER-I	DIVERSION OF 220 KV S/C RAMCHANDRAPUR - JODA LINE WHICH IS CROSSING CHAIBASA SITE )	OPTCL/ JHAKHAND
45	400 KV JSR - CHAIBASA - I	30/11/14	08:00	30/11/14	18:00	ODB	ER-I	FOR CONSTRUCTION WORK OF 315 MVA ICT - 2 AT CHAIBASA.	
46	400 KV CHAIBASA - RKL - I	30/11/14	08:00	30/11/14	18:00	ODB	ER-I	FOR CONSTRUCTION WORK OF 315 MVA ICT - 2 AT CHAIBASA.	
47	160 MVA ICT-II AT MALDA	30/11/14	08:00	30/11/14	15:00	ODB	ER-II	For Bushing oil sampling.	WBSETCL
48	400 KV Keonjhar-Rengali Line	30/11/14	09:00	30/11/14	19:00	ODB	ER-II	Erection of Beam , Stringing of Jack Bus in Future bay	
49	A/R OF 400 KV BANKA - KAHALGAON -2	01/12/14	06:00	31/12/14	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Either khg - banka - bsf or barh - Khg one will be
50	A/R OF 400 KV BANKA - BSF -2	01/12/14	06:00	31/12/14	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Either khg - banka - bsf or barh - Khg one will be
51	A/R OF 400 KV BARH - KAHALGAON -2	01/12/14	06:00	31/12/14	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Either khg - banka - bsf or barh - Khg one will be
52	A/R OF 400 KV JSR - BARIPADA	01/12/14	06:00	31/12/14	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	NLDC
53	400 KV PTN - BALIA - 4	01/12/14	10:00	01/12/14	14:00	ODB	ER-I	FOR LINE MAINTENANCE WORK.	NLDC
54	220KV BTPS-JAMSHEDPUR D/C AND 220KV BTPS-RAMGARH D/C	01/12/14	08:00	02/12/14	18:00	ODB	ER-I	FOR STRINGING WORKOF 400KV D/C BOKARO-KODERMA TL AT LOC NO 88-89	DVC
55	100MVA ICT-II AT PRN	01/12/14	09:00	01/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
56	MAIN BAY OF 80MVAR B/R AT LAKHISARAI	01/12/14	08:00	01/12/14	18:00	ODB	ER-I	FOR COMMISSIONING OF CSD DEVICE	
57	80MVAR B/R AT LAKHISARAI	01/12/14	16:00	01/12/14	18:00	ODB	ER-I	FOR TESTING OF CSD DEVICE	
58	400KV RNC-NRNC-1 & 2	01/12/14	07:00	04/12/14	18:00	ODB	ER-I	FOR CONDUCTOR REPAIR AT LOC NOS-24/0,27/0,32/0 ,34/0 DAMAGED BY MISCREANTS	
59	400KV RNC-RAGHUNATHPUR	01/12/14	12:00	01/12/14	17:00	ODB	ER-I	FOR ATTENDING POWERLINE CLEARANCE PROBLEM AT LOC NO 196-197 OF RNC-RTPS LINE & RNC -MTN	DVC
60	400KV RNC-MTN LINE	01/12/14	12:00	01/12/14	17:00	ODB	ER-I	FOR ATTENDING POWERLINE CLEARANCE PROBLEM AT LOC NO 196-197 OF RNC-RTPS LINE & RNC -MTN	
61	220KV SANTHALDIH-CHANDIL(WBSETCL)	01/12/14	12:00	01/12/14	17:00	ODB	ER-I	FOR ATTENDING POWERLINE CLEARANCE PROBLEM AT LOC NO 196-197 OF RNC-RTPS LINE & RNC -MTN	WBSETCL/ JHARKHAND
62	400 KV BSF - GAYA LINE	01/12/14	08:00	04/12/14	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 400 KV BSF - SSRM -4.	NLDC
63	400 KV BSF - GAYA LINE	01/12/14	08:00	10/12/14	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 765 KV GAYA - BALIA	NLDC
64	400 KV SSRM - BALIA	01/12/14	08:00	04/12/14	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS A 400 KV BSF - SSRM - IV	NLDC
65	400 KV SSRM - BALIA	01/12/14	08:00	10/12/14	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 765 KV GAYA - BALIA	NLDC
66	3*500MVA ,765KV ICT-2 AT GAYA	01/12/14	10:00	01/12/14	18:00	ODB	ER-I	FOR AMP	NLDC
67	400 KV Main Bus-I at Keonjhar	01/12/14	09:00	02/12/14	19:00	ODB	ER-II	Extension of 400 KV Bus-I	
68	132 KV SLG-Rangeet	01/12/14	09:00	01/12/14	17:00	ODB	ER-II	AMP	WBSETCL
69	315MVA ICT-I at Maithon	01/12/14	09:00	01/12/14	17:00	ODB	ER-II	Relay retrofitting,42489T (Y-Ph) Isolator arm replacement	DVC
70	400 KV Bus coupler & 400 KV BUS-I at Malda	01/12/14	07:00	03/12/14	18:00	OCB	ER-II	CT & CVT change of Bus Coupler bay under ADDCAP & BUS-I isolator works of Purnea-I, Purnea-II,Farakka-II, 315 MVA ICT-III ,Bus Coupler & TBC under NTAMC. All feeders will be charged through TBC after one by one during isolator maintenance.	Please clarify. Is there any power interruption?
71	400KV New Siliguri Tala-4 line	01/12/14	10:00	01/12/14	14:00	ODB	ER-II	CSD Commissioning Reactor	NLDC

72	220 KV Bus sectionaliser, 220 KV DVC-2, 220 KV ICT#1 incommer & 220 KV Bus Transfer-1 at Durgapur	01/12/14	08:00	05/12/14	18:00	OCB	ER-II	Erection of 4 no 220 KV Bus Isolator approved under ADD CAP. GR POWER has awarded for the work, Isolator has been received and ready to erect. Due to low clearance in the 220 KV yard Shutdown of bus section -1 is required for safety and speedy erection of isolators.	DVC
73	160 MVA ICT-I AT MALDA	02/12/14	08:00	02/12/14	15:00	ODB	ER-II	For Bushing oil sampling.	WBSETCL
74	400KV MTN-KHG-I Line with LR	02/12/14	09:00	02/12/14	17:00	ODB	ER-II	Reactor isolator operation checking for NTAMC ; leakage arrest from reactor;SFRA test	NLDC
75	400KV Rourkela- Sundargarh Ckt-2	02/12/14	08:00	03/12/14	17:00	ODB	ER-II	For Rectification of Mechanical Interlock in 400 KV Isolator	NLDC
76	315 MVA ICT - I AT MUZ	02/12/14	09:00	02/12/14	17:00	ODB	ER-I	FOR AMP WORK ( INCLUDING OIL REPLACEMENT WORK & OIL SAMPLING OF BUSHING FOR DGA)	
77	400 KV JSR - MTN	02/12/14	09:00	02/12/14	17:00	ODB	ER-I	FOR AMP WORK (MAIN & LINE BAY)	
78	220 KV RNC - CHANDIL - I	02/12/14	09:30	02/12/14	16:30	ODB	ER-I	FOR AMP WORK	JHARKHAND
79	220KV PRN-DALKHOLA-I	02/12/14	09:00	02/12/14	17:00	ODB	ER-I	FOR AMP WORK	
80	TIE BAY OF 80MVAR B/R AT LAKHISARAI	02/12/14	08:00	02/12/14	18:00	ODB	ER-I	FOR COMMISSIONING OF CSD DEVICE	
81	80MVAR B/R AT LAKHISARAI	02/12/14	16:00	02/12/14	18:00	ODB	ER-I	FOR TESTING OF CSD DEVICE	
82	765KV 3*80MVAR B/R-1 AT NRNC	02/12/14	08:00	04/12/14	18:00	ODB	ER-I	FOR CSD COMMISSIONING WORK.(ITS TIE BAY IS NOT AVAILABLE.	NLDC
83	400 KV BSF - SSRM - 3	02/12/14	08:00	04/12/14	18:00	ODB	ER-I	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV BSF - SSRM -IV	NLDC
84	400KV NORTH BUS-1 AT PSL	02/12/14	09:00	02/12/14	17:00	ODB	ER-I	FOR AMP WORK	NLDC
85	315MVA ICT-2 at Indravati	02/12/14	09:00	02/12/14	18:00	ODB	ER-II	AMP	OPTCL
86	<b>400 kV Talcher - Rengali - I</b>	<b>02/12/14</b>	<b>09:00</b>	<b>04/12/14</b>	<b>17:00</b>	<b>OCB</b>	<b>NTPC</b>	<b>ANNUAL OVER HAULING</b>	<b>May be done on daily basis</b>
87	315 MVA ICT -1 AT BIHARSHARIF	03/12/14	09:00	03/12/14	17:00	ODB	ER-I	FOR AMP WORK	
88	400 KV JSR - BARIPADA LINE	03/12/14	08:00	03/12/14	17:00	ODB	ER-I	FOR REPLACEMENT OF BROKEN INSULATORS DAMAGED BY	
89	220KV PRN-DALKHOLA-II	03/12/14	09:00	03/12/14	17:00	ODB	ER-I	FOR AMP WORK	
90	80 MVAR Bus Reactor at Keonjhar	03/12/14	09:00	03/12/14	19:00	ODB	ER-II	Erection of FF Detection Line	
91	400 kV Indravati - Jaypore	03/12/14	09:00	03/12/14	18:00	ODB	ER-II	Replacement of R-Phase CVT due to oil leakage	NLDC
92	400KV MTN-KHG-II Line with LR	03/12/14	09:00	03/12/14	17:00	ODB	ER-II	PRD inspection/leakge arrest/PRD replacement of LR.	NLDC
93	400KV New Siliguri Tala-2 line	<b>03/12/14</b>	<b>10:00</b>	<b>03/12/14</b>	<b>14:00</b>	ODB	ER-II	CSD Commissioning Reactor	NLDC
94	315 MVA ICT - 4 AT JERAT	03/12/14	07:00	03/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	
95	400 KV BUS - I AT RNC	04/12/14	09:30	04/12/14	18:00	ODB	ER-I	FOR AMP WORK	
96	400KV NORTH BUS-2 AT PSL	04/12/14	09:00	04/12/14	17:00	ODB	ER-I	FOR AMP WORK	NLDC
97	50MVAR Line Reactor at Indravati - Rengali	04/12/14	09:00	20/12/14	18:00	OCB	ER-II	Drying Out of Rengali Line Reactor	
98	400kv Kh-Maithon ckt-1	04/12/14	09:30	04/12/14	17:30	ODB	NTPC	PM works & Relay Testing.	NLDC
99	220kv Rengali- Rengali (PG) Ckt.I	04/12/14	07:00	04/12/14	16:00	ODB	OPTCL	AMC WORK	
100	400kv Meramundali- Mendhasal line	04/12/14	07:00	07/12/2014	17:00	ODB	OPTCL	AMC WORK	
101	50 MVAR B/R - I AT KAHALGAON	09/12/14	09:30	13/12/2014	17:30	OCB	NTPC	ANNUAL OVER HAULING	
102	400 KV SEL - Raigarh # 2	05/12/14	09:00	05/12/14	17:00	ODB	ER-II	Jumper tightening works,VD adjustment,Corona ring tightening and spacer tightening works .	NLDC
103	400 KV JSR - MEJIA	05/12/14	09:00	05/12/14	17:00	ODB	ER-I	FOR AMP WORK (MAIN & LINE BAY)	DVC
104	132KV MAIN BUS at Malda	05/12/14	09:00	05/12/14	17:00	ODB	ER-I	FOR AMP WORK	WBSETCL
105	400KV RNC-NRNC-3 & 4	05/12/14	07:00	08/12/14	18:00	ODB	ER-I	FOR CONDUCTOR REPAIR AT LOC NOS-25/0,31/0,35/0 ,38/0 DAMAGED BY MISCREANTS	
106	400 KV MTN - KODERMA - 1	05/12/14	08:00	05/12/14	18:00	ODB	ER-I	<b>PERMANENT S/D</b> OF SAID CKT. IS REQUIRED .ON RESTORATION THE LINE WILL BE CHARGED AS A 400 KV GAYA - MTN - I	NLDC
107	400 KV MTN - KODERMA - 1	05/12/14	08:00	07/12/14	18:00	OCB	ER-I	<b>PERMANENT S/D</b> OF SAID CKT. IS REQUIRED .ON RESTORATION THE LINE WILL BE CHARGED AS A 400 KV GAYA - KODERMA - I	NLDC
108	400 KV GAYA - KODERMA - II	05/12/14	08:00	06/12/14	18:00	OCB	ER-I	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV GAYA - KODERMA - I	NLDC
109	400 KV GAYA - MAITHON - II	05/12/14	08:00	05/12/14	18:00	ODB	ER-I	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV GAYA - MTN - I	NLDC
110	220 KV BUS-I at Malda	05/12/14	07:00	05/12/14	18:00	ODB	ER-II	CVT change under ADDCAP & Bus -I maintenance work.	WBSETCL
111	220kv Rengali- Rengali (PG) Ckt.II	05/12/2014	07:00	05/12/2014	17:00	ODB	OPTCL	AMC WORK	
112	400 KV Sundargarh-Indo Bharat Ckt-1	06/12/14	08:00	07/12/14	17:00	ODB	ER-II	For Rectification of Mechanical Interlock in 400 KV Isolator	NLDC
113	765KV 3*80MVAR B/R-2 AT NRNC	06/12/14	08:00	06/12/14	18:00	ODB	ER-I	FOR CSD COMMISSIONING WORK	NLDC



114	400KV EAST BUS-2 AT PSL	06/12/14	09:00	06/12/14	17:00	ODB	ER-I	FOR AMP WORK	NLDC
115	220KV MTN-Kalyaneshwari-I	06/12/14	09:00	06/12/14	17:00	ODB	ER-II	Line isolator arm replacement & remote operation checking	DVC
116	220 KV BUS-II at Malda	06/12/14	07:00	06/12/14	18:00	ODB	ER-II	CVT change under ADDCAP & Bus -II maintenance work.	WBSETCL
117	220 KV BUDHIPADAR - KORBA - II	06/12/14	08:00	08/12/14	16:00	ODB	OPTCL	ANNUAL MAINTENANCE WORK	NLDC
118	220 KV BUDHIPADAR - KORBA - II	08/12/14	08:00	06/12/14	16:00	ODB	OPTCL	ANNUAL MAINTENANCE WORK	NLDC
119	132 KV D/C HATHIDAH-BIHARSHARIF TL (OF BSPTCL)	07/12/14	08:00	08/12/14	18:00	ODB	ER-I	FOR CROSSING OF 400 KV D/C QUAD KISHANGANJ - PATNA LINE (BETWEEN 154/0 & 155/0)	BIHAR
120	400KV BUS-1 AT LAKHISARAI	07/12/14	09:00	07/12/14	18:00	ODB	ER-I	FOR BUS BAR PROTECTION & CHECKING OF INTERLOCK LOGIC OF BUS BAR EARTH SWITCH	NLDC
121	765kV, 240MVA Bus Reactor-1 AT JHARSUGUDA	07/12/14	08:00	12/12/14	17:00	ODB	ER-II	Fire fighting Pylon support erection	NLDC
122	400 KV SAGARDIGHI - S'GRAM ALONG WITH L/R	07/12/14	07:00	07/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	NLDC
123	400 KV Rourkela - Sundargarh # 2	08/12/14	09:00	08/12/14	17:00	ODB	ER-II	AMP Work	NLDC
124	132KV TRANSFER BUS at Malda	08/12/14	09:00	08/12/14	17:00	ODB	ER-I	FOR AMP WORK	WBSETCL
125	400KV BUS-2 AT LAKHISARAI	08/12/14	09:00	08/12/14	18:00	ODB	ER-I	FOR BUS BAR PROTECTION & CHECKING INTERLOCK LOGIC OF BUS BAR EARTH SWITCH	NLDC
126	3*80MVAR L/R OF 765KV NRNC-DHARAMJAIGARH AT NRNC	08/12/14	08:00	08/12/14	18:00	ODB	ER-I	FOR CSD COMMISSIONING WORK	NLDC
127	220KV BUS-1 AT PSL	08/12/14	09:00	08/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
128	400 KV BUS-2 at Sundargarh	08/12/14	08:00	10/12/14	17:00	ODB	ER-II	For erection of extra BPI and Rectification of mechanical interlock problem in 400 KV Isolator	NLDC
129	Maithon Durgapur #2	08/12/14	09:00	08/12/14	17:00	ODB	ER-II	Line and Bay AMP	
130	132 KV WBSETCL-I at Malda	08/12/14	07:00	08/12/14	18:00	ODB	ER-II	CT change under ADDCAP.	WBSETCL
131	TIE BAY OAT SAGARDIGHI OF FARAKKA & S'GRAM	08/12/14	07:00	08/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	
132	400 KV Sundergarh - Raigarh # 2	09/12/14	09:00	09/12/14	17:00	ODB	ER-II	Jumper tightening works,VD adjustment,Corona ring tightening and spacer tightening works .	NLDC
133	400KV Rourkela- Sundargarh Ckt-1	09/12/14	08:00	10/12/14	17:00	ODB	ER-II	For Rectification of Mechanical Interlock in 400 KV Isolator	NLDC
134	400 KV Sundargarh-Raigarh Ckt-2	09/12/14	08:00	10/12/14	17:00	ODB	ER-II	For Rectification of Mechanical Interlock in 400 KV Isolator	NLDC
135	400 KV BUS - II AT RNC	09/12/14	09:30	09/12/14	18:00	ODB	ER-I	FOR AMP WORK	
136	220KV PRN-NPRN-I	09/12/14	09:00	09/12/14	17:00	ODB	ER-I	FOR AMP WORK	
137	125MVAR B/R-2 AT NRNC	09/12/14	08:00	09/12/14	18:00	ODB	ER-I	FOR CSD COMMISSIONING WORK	
138	400KV RNC-NRNC-1 & 3	09/12/14	07:00	11/12/14	18:00	OCB	ER-I	FOR REPLACEMENT OF BROKEN INSULATORS OF MC-2 & MC-4 DAMAGED BY MISCREANTS	
139	220KV BUS-2 AT PSL	09/12/14	09:00	09/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
140	400KV Bolangir- Jaypore	09/12/14	09:00	09/12/14	17:00	ODB	ER-II	For Tightening of tower Jumpers, corona rings, Vibration damper etc.	NLDC
141	220 KV DLK- MLD-I	09/12/14	08:00	09/12/14	16:00	ODB	ER-II	AMP for 2014-15	
142	Koderma-I Line Reactor	09/12/14	09:00	09/12/14	17:00	ODB	ER-II	Reactor bay AMP works	
143	132 KV WBSETCL-II at Malda	09/12/14	07:00	09/12/14	18:00	ODB	ER-II	CT change under ADDCAP.	WBSETCL
144	400 kv Barh – Patna ckt-4	09/12/14	09:30	10/12/14	17:30	ODB	NTPC	Replacement of main bay CTs and PM job of CTs, CVTs, LAs, Isolators, CBs of Main & Tie bays And Relays testing	NLDC
145	400 kv Talcher - Rengali - II	09/12/14	09:00	01/12/14	17:00	OCB	NTPC	ANNUAL OVER HAULING	May be done on daily basis
146	400 KV GMR - MERAMUNDALI & GMR - TALCHER	10/12/14	07:00	10/12/14	18:00	ODB	GMR	REMOVAL OF GMR LILO AND COMM OF GMR - ANUGUL D/C	NLDC
147	765/400KV 1500MVA ICT-2 AT JHARSUGUDA	10/12/14	08:00	17/12/14	17:00	ODB	ER-II	Fire fighting Pylon support erection	NLDC
148	765KV MAIN BUS-2 AT NRNC	10/12/14	08:00	12/12/14	18:00	ODB	ER-I	FOR 765KV BUS-2 EXTENSION WORK	NLDC
149	315 MVA ICT - II AT RNC	10/12/14	09:30	10/12/14	17:30	ODB	ER-I	FOR AMP WORK	
150	220KV PRN-NPRN-II	10/12/14	09:00	10/12/14	17:00	ODB	ER-I	FOR AMP WORK	
151	125MVAR B/R-1 AT NRNC	10/12/14	08:00	12/12/14	18:00	ODB	ER-I	FOR CSD WIRING MODIFICATION & COMMISSIONING WORK	
152	400 KV SSRM - SARNATH LINE	10/12/14	08:00	10/12/14	18:00	ODB	ER-I	FOR SPACER REPLACEMENT AND AMP WORK	NLDC
153	400 KV SSRM - SARNATH L/R AT SSRM	10/12/14	08:00	10/12/14	18:00	ODB	ER-I	AMP WORK	NLDC
154	Line Reactor of Jeypore - Bolangir at Bolangir	10/12/14	09:00	10.12.2014	17:00	ODB	ER-II	Erection work of NGR bypass system of L/R of Jaypore Line.	
155	400 KV JERAT - S'GRAM	10/12/14	07:00	10/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	NLDC
156	220kv Rengali- Kaniha Ckt. (Loc. 98 to Loc. 187)	10/12/2014	07:00	11/12/2014	17:00	ODB	OPTCL	AMC WORK	
157	220 KV BUS - I AT MENDHSAL	10/12/2014	07:00	10/12/2014	16:00	ODB	OPTCL	AMC WORK	
158	400 KV BSF- KODERMA -1	11/12/14	10:00	11/12/14	14:00	ODB	ER-I	FOR MAINTENANCE WORK	NLDC
159	80 MVAR B/R AT RNC	11/12/14	09:30	11/12/14	13:30	ODB	ER-I	FOR AMP WORK	NLDC

160	400 KV SSRM - ALBD LINE	11/12/14	08:00	15/12/14	18:00	ODB	ER-I	FOR SPACER REPLACEMENT AND AMP WORK	NLDC
161	400 KV SSRM ALBD L/R AT SSRM	11/12/14	08:00	11/12/14	18:00	ODB	ER-I	FOR AMP WORK	NLDC
162	400KV MTN-RTPS(DVC)	11/12/14	09:00	15/12/14	17:00	ODB	ER-II	PIR removal of main Bay CB .S/D required for crane movement. Line will be charged through TIE bay when crane movement is not required during PIR removal work	DVC
163	400kvBus Reactor-1 along with 400kv Sagardighi line	11/12/14	09:30	11/12/14	17:30	ODB	NTPC	PM works & Relay Testing..	NLDC
164	400kv Kh-Farakka ckt-3	11/12/14	09:30	11/12/14	17:30	ODB	NTPC	PM works & Relay Testing.	NLDC
165	220 KV DVC- Durgapur - I	11/12/14	10:00	11/12/14	18:00	ODB	ER-II	AMP works & NTAMC works	DVC
166	400 KV BSF- KODERMA -2	12/12/14	10:00	12/12/14	14:00	ODB	ER-I	FOR MAINTENANCE WORK	NLDC
167	400 KV TISCO - JSR LINE	12/12/14	09:00	12/12/14	17:00	ODB	ER-I	FOR AMP WORK (MAIN & LINE BAY)	
168	400KV RNC-NRNC-2 & 4	12/12/14	07:00	14/12/14	18:00	OCB	ER-I	FOR REPLACEMENT OF BROKEN INSULATORS OF MC-2 & MC-4 DAMAGED BY MISCREANTS	
169	LINE Reactor of Anugul - BOLANGIR line AT BOLANGIR.	12/12/14	09:00	12.12.2014	17:00	ODB	ER-II	Erection work of NGR bypass system of L/R of AnugulLine.	
170	400 KV BUS-1 at Sundargarh	12/12/14	08:00	13/12/14	17:00	ODB	ER-II	For erection of extra BPI and Rectfication of mechanical interlock problem in 400 KV Isolator	NLDC
171	220 KV DLK- MLD-II	12/12/14	08:00	12/12/14	16:00	ODB	ER-II	AMP for 2014-15	
172	400/220/132KV grid s/s Meramundali	12/12/2014	07:00	12/12/2014	17:00	ODB	OPTCL	AMC WORK	
173	400KV PATNA-BARH-3 & 4	13/12/14	08:00	14/12/14	18:00	ODB	ER-I	FOR STRINGING WORK OF 400KV D/C BARH-GKP T/L	NLDC
174	765KV, 240MVAR Bus Reactor-2 AT JHARSUGUDA	13/12/14	08:00	18/12/14	17:00	ODB	ER-II	Fire fighting Pylon support erection	NLDC
175	220kv Tarkera- RSP Ckt.II	13/12/2014	07:00	13/12/2014	17:00	ODB	OPTCL	AMC WORK	
176	132 KV Main Bus at Malda	14/12/14	09:00	14/12/14	15:00	ODB	ER-II	Bus maintenance work.	WBSETCL
177	315 MVA ICT AT SAGARDIGHI	14/12/14	07:00	14/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	
178	BUS Reactor-1 AT ANUGUL	15/12/14	08:00	15.12.14	18:00	ODB	ER-II	Erection of Radiator	
179	315 MVA ICT-III at Malda	15/12/14	11:00	15/12/14	12:00	ODB	ER-II	Oil sample collection of CT changed under ADDCAP as per DGA	WBSETCL
180	220 KV Dalkhola- Malda -I	15/12/14	12:00	15/12/14	13:00	ODB	ER-II	Oil sample collection of CT changed under ADDCAP as per DGA	WBSETCL
181	220 KV Dalkhola- Malda II	15/12/14	13:00	15/12/14	14:00	ODB	ER-II	Oil sample collection of CT changed under ADDCAP as per DGA	WBSETCL
182	220 KV Bus Coupler at Malda	15/12/14	14:00	15/12/14	15:00	ODB	ER-II	Oil sample collection of CT changed under ADDCAP as per DGA	WBSETCL
183	220 KV BUS - II AT MENDHSAL	17/12/2014	07:00	17/12/2014	16:00	ODB	OPTCL	AMC WORK	
184	220 KV BUDHIPADAR - KORBA - I	15/12/2014	07:00	25/12/2014	16:00	ODB	OPTCL	BREAKER REPLACEMENT WORK AT BUDHIPADAR	NLDC
185	50 MVAR B/R - I AT KAHALGAON	16/12/14	09:30	20/12/2014	17:30	OCB	NTPC	ANNUAL OVER HAULING	
186	400 kV Talcher - Rourkela - I	16/12/14	09:00	17/12/14	17:00	ODB	ER-II	Modification of Line Isolator (Hivelm Make) for converting gang operated mechanism to individual operated mechanism.	
187	400 KV BSF-MUZ - I & II	16/12/14	08:00	17/12/14	18:00	ODB	ER-I	FOR CROSSING OF 400 KV D/C QUAD KISHANGANJ - PATNA LINE (BETWEEN 164/0 & 165/0 ) AND STRINGING WORK OF 400KV D/C BARH-GKP T/L(BETWEEN 6/0 & 7/0 )	NLDC
188	132 KV S/C PUNEA - BIRPUR LINE (BSPTCL)	16/12/14	08:00	17/12/14	18:00	ODB	ER-I	FOR STRINGING OF 400 KV D/C(QUAD) KISHANGANJ - PATNA T/L	BIHAR
189	220 KV ARA - SASARAM - 1	16/12/14	10:00	16/12/14	16:00	ODB	ER-I	FOR AMP WORK	
190	132KV PRN (PG)-KISHANGANJ	16/12/14	09:00	16/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
191	400 KV SARNATH - ALBD LINE	16/12/14	08:00	20/12/14	18:00	ODB	ER-I	FOR SPACER REPLACEMENT	NLDC
192	400KV Baripada-Mendhasal Line 1 Main Bay AT BARIPADA	16/12/14	09:00	16.12.2014	17:00	ODB	ER-II	Jumping nut & Bolts Tightning and Replacement of punctured insulator	
193	400 kV Talcher - Rourkela - I	16/12/14	09:00	18/12/14	17:00	ODB	NTPC	ANNUAL OVER HAULING	
194	220kv Rengali- TTPS Ckt. (Loc. 29 to Loc. 186)	16/12/2014	07:00	17/12/2014	17:00	ODB	OPTCL	AMC WORK	
195	220 KV ARA - SASARAM - 2	17/12/14	10:00	17/12/14	16:00	ODB	ER-I	FOR AMP WORK	
196	132KV PRN (PG)-PRN (BSPTCL)-1	17/12/14	09:00	17/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
197	400KV EAST BUS-1 AT PSL	17/12/14	09:00	17/12/14	17:00	ODB	ER-I	FOR AMP WORK. <b>765 /400 KV 1500 MVA ICT AT PSL WILL ALSO BE OUT AS PER EXISTING SCHEME</b>	NLDC
198	765 KV 3 X 500 MVA ICT AT SSRM	17/12/14	09:00	17/12/14	17:00	ODB	ER-I	FOR AMP WORK	NLDC
199	400KV Baripada-Mendhasal Line 2 Main Bay AT BARIPADA	17/12/14	09:00	17.12.2014	17:00	ODB	ER-II	Jumping nut & Bolts Tightning and Replacement of punctured insulator	
200	400KV MTN-RB-I	17/12/14	09:00	17/12/14	17:00	ODB	ER-II	Isolator Arm Replacement and AMP of Line Bay.	MPL
201	220kv Jauanagar- Jeypore(PG) Ckt.I	17/12/2014	07:00	17/12/2014	17:00	ODB	OPTCL	AMC WORK	NLDC

202	220 KV BUS - I AT ARA	18/12/14	09:30	18/12/14	17:30	ODB	ER-I	FOR AMP WORK	BIHAR
203	132KV PRN (PG)-PRN (BSPTCL)-2	18/12/14	09:00	18/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
204	132kv Kh-Sabour	18/12/14	09:30	18/12/14	17:30	ODB	NTPC	PM works & Relay Testing.	BIHAR
205	220KV TTPS- Joda Ckt.I(Loc No-235 to 508)	18/12/2014	07:00	20/12/2014	17:00	ODB	OPTCL	AMC WORK	
206	220 KV BUS - II ARA	19/12/14	09:30	19/12/14	17:30	ODB	ER-I	FOR AMP WORK	BIHAR
207	132KV PRN (PG)-PRN (BSPTCL)-3	19/12/14	09:00	19/12/14	17:00	ODB	ER-I	FOR AMP WORK	BIHAR
208	765kv, 240MVAr Angul Line Reactor-2 AT JHARSUGUDA	19/12/14	08:00	24/12/14	17:00	ODB	ER-II	Fire fighting Pylon support erection	NLDC
209	400KV MTN-RB-II	19/12/14	09:00	19/12/14	17:00	ODB	ER-II	Isolator Arm Replacement, Strung bus repair,oil sampling of Y-Ph line CT (Alstom make).	MPL
210	220 KV BUS COUPLER AT ARA	20/12/14	09:00	20/12/14	15:00	ODB	ER-I	FOR AMP WORK	BIHAR
211	400 KV JERAT - BAKRESWAR	21/12/14	07:00	21/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	NLDC
212	220KV TRANSFER BUS AT PSL	22/12/14	09:00	22/12/14	17:00	ODB	ER-I	FOR AMP WORK	
213	220kv TTPS- Joda Ckt.II(Loc No-235 to 508)	22/12/2014	07:00	23/12/2014	17:00	ODB	OPTCL	AMC WORK	
214	400 kV Talcher - Rourkela - II	23/12/14	09:00	25/12/14	17:00	ODB	ER-II	Modification of Line Isolator (Hivelm Make) for converting gang operated mechanism to individual operated mechanism.	
215	400 KV NEW PURNEA - MUZAFFARPUR - I & II	23/12/14	08:00	24/12/14	18:00	ODB	ER-I	FOR STRINGING OF 400 KV D/C(QUAD) KISHANGANJ - PATNA T/L	NLDC
216	400 kV Talcher - Rourkela - II	23/12/14	09:00	25/12/14	17:00	ODB	NTPC	ANNUAL OVER HAULING	
217	132 KV S/C HATHIDAH - LAKHISARAI LINE (OF BSPTCL)	24/12/14	08:00	25/12/14	18:00	ODB	ER-I	FOR CROSSING OF 400 KV D/C QUAD KISHANGANJ - PATNA LINE (BETWEEN 141/0 & 142/0 )	BIHAR
218	220KV BUS COUPLER BAY AT PSL	24/12/14	09:00	24/12/14	17:00	ODB	ER-I	FOR AMP WORK	
219	132 Kv BARIPADA - BARIPADA(PG)	24/12/14	07:00	24/12/14	16:00	ODB	OPTCL	AMC WORK	
220	400 KV BSF-MUZ-2	26/12/14	06:00	31/12/14	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	NLDC
221	220kv Tarkera - Budhipadar ckt.-I (Rajgangpur to Bamra)	26/12/2014	07:00	27/12/2014	17:00	ODB	OPTCL	AMC WORK	
222	132/33 KV RAIRANGPUR S/S	26/12/2014	07:00	26/12/2014	16:00	ODB	OPTCL	AMC WORK	
223	132 KV BARIPADA - RAIRANGPUR S/S	26/12/2014	07:00	26/12/2014	16:00	ODB	OPTCL	AMC WORK	
224	132/33 KV BARIPADA S/S	27/12/2014	07:00	27/12/2014	16:00	ODB	OPTCL	AMC WORK	
225	220KV TTPS- Joda Ckt.II(Loc No-235 to 508)	27/12/2014	07:00	27/12/2014	17:00	ODB	OPTCL	AMC WORK	
226	400 KV JERAT - KOLAGHAT	28/12/14	07:00	28/12/14	15:00	ODB	WBSETCL	WINTER MAINTENANCE	NLDC
227	132KV D/C HAJIPUR-SHITALPUR(BSPTCL)	29/12/14	08:00	30/12/14	18:00	ODB	ER-I	FOR STRINGING WORK OF 400KV D/C BARH-GKP T/L	BIHAR
228	220kv Jayanagar - Jeypore(PG) Ckt.II	29/12/2014	07:00	30/12/2014	17:00	ODB	OPTCL	AMC WORK	NLDC
229	220kv Tarkera -Budhipadar Circuit-II(Rajgangpur to Bamra)	29/12/2014	07:00	30/12/2014	17:00	ODB	OPTCL	AMC WORK	

**Anticipated Power Supply Position for the month of  
Dec-14**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	<b>BIHAR</b>		
	i) NET MAX DEMAND	3000	1328
	ii) NET POWER AVAILABILITY- Own Source	200	57
	- Central Sector	2500	1063
	iii) SURPLUS(+)/DEFICIT(-)	-300	-208
2	<b>JHARKHAND</b>		
	i) NET MAX DEMAND	1100	700
	ii) NET POWER AVAILABILITY- Own Source	498	255
	- Central Sector	601	373
	iii) SURPLUS(+)/DEFICIT(-)	-1	-72
3	<b>DVC</b>		
	i) NET MAX DEMAND (OWN)	2750	1705
	ii) NET POWER AVAILABILITY- Own Source	3800	2909
	- Central Sector	416	289
	Long term Bi-lateral (Export)	2069	1539
	iii) SURPLUS(+)/DEFICIT(-)	-603	-46
4	<b>ODISHA</b>		
	i) NET MAX DEMAND	3550	2000
	ii) NET POWER AVAILABILITY- Own Source	2350	1120
	- Central Sector	1039	637
	iii) SURPLUS(+)/DEFICIT(-)	-161	-243
5	<b>WEST BENGAL</b>		
5.1	<b>WBSEDCL</b>		
	i) NET MAX DEMAND (OWN)	4450	2383
	ii) CESC's DRAWAL	450	49
	iii) TOTAL WBSEDCL's DEMAND	4900	2433
	iv) NET POWER AVAILABILITY- Own Source	3200	1723
	- Import from DPL	183	55
	- Central Sector	1400	1162
	v) SURPLUS(+)/DEFICIT(-)	-117	508
5.2	<b>DPL</b>		
	i) NET MAX DEMAND	260	205
	ii) NET POWER AVAILABILITY	443	260
	iii) SURPLUS(+)/DEFICIT(-)	183	55
5.3	<b>CESC</b>		
	i) NET MAX DEMAND	1450	700
	ii) NET POWER AVAILABILITY - OWN SOURCE	945	621
	FROM WBSEDCL	500	49
	iii) TOTAL AVAILABILITY	1445	670
	iv) SURPLUS(+)/DEFICIT(-)	-5	-30
6	<b>WEST BENGAL (WBSEDCL+DPL+CESC)</b> <b>(excluding DVC's supply to WBSEDCL's command area)</b>		
	i) NET MAX DEMAND	6160	3288
	ii) NET POWER AVAILABILITY- Own Source	4588	2604
	- Central Sector	1400	1162
	iii) SURPLUS(+)/DEFICIT(-)	-172	478
7	<b>SIKKIM</b>		
	i) NET MAX DEMAND	105	55
	ii) NET POWER AVAILABILITY- Own Source	16	3
	- Central Sector	111	56
	iii) SURPLUS(+)/DEFICIT(-)	22	4
8	<b>EASTERN REGION</b>		
	<b>At 1.03 AS DIVERSITY FACTOR</b>		
	i) <b>NET MAX DEMAND</b>	16180	9077
	Long term Bi-lateral	2069	1539
	ii) <b>NET TOTAL POWER AVAILABILITY OF ER</b> <b>(INCLUDING C/S ALLOCATION)</b>	14999	8990
	iii) <b>PEAK SURPLUS(+)/DEFICIT(-) OF ER</b> <b>(ii)-(i)</b>	-1180	-87